

Contents	Pages
Section Overview	10/2–10/3
3SB2, 16mm Mounting Diameter Pilot Devices	
Introduction	10/4
Technical Specifications	10/5
Complete Units	10/6–10/7
Pushbutton and Selector Switch Operators	10/8
Key-operated Switches and Indicator Lights	10/9
Holders, Lampholders and Contact Blocks with Tabs ..	10/10
Holders, Lampholders and Contact Blocks with Solder Pins	10/11
Inserts, Legend Plates, and Accessories	10/12–10/16
PCB Mounting Instructions	10/17
Dimension Drawings	10/18
Sirius 3SB3 22mm Mounting Diameter Pilot Devices	
Introduction	10/19–10/20
Technical Specifications	10/21–10/22
3SB3 Metal Round	
Complete Units	10/23–10/26
Pushbutton Operators	10/27–10/28
Emergency-stop Mushroom Pushbutton Operators	10/29
Indicator Lights	10/30
Selector Switch Operators	10/31–10/33
Key Operated Switch Operators	10/34–10/36
3SB3 Plastic Round	
Complete Units	10/37–10/41
Pushbutton Operators	10/42–10/43
Emergency-stop Mushroom Pushbutton Operators	10/44
Indicator Lights	10/45
Selector Switch Operators	10/46
Key Operated Switch Operators	10/47–10/49
Joystick Switches	10/50–10/52
Twin Pushbutton Operators	10/53
3SB3 Plastic Square	
Complete Units	10/54–10/55
Pushbutton Operators	10/56
Selector Switch Operators	10/57
Key Operated Switches	10/58
Emergency-stop Mushroom Pushbuttons	10/59
Indicator Lights	10/59
3SB3 Contact Blocks and Lampholders	10/60–10/63
3SB3 Special Key Operated Switches	10/64
3SB3 Contact Block Position Chart for Selector Switches	10/65
3SB3 Laser Inscription and Legend Plates	10/66–10/69
3SB3 Accessories and Spare Parts	10/70–10/74
Sirius 3SB3 22mm Enclosed Pushbutton Stations	
Introduction	10/75
Assembled Metal and Plastic Enclosures with Standard Devices	10/76
Empty Enclosures	10/77
Contact Blocks and Lampholders	10/77–10/78
Enclosure Accessories	10/79
Enclosure Labelling with Inscription Plates	10/80
Custom Order Pushbutton Stations	10/81–10/87
Dimension Drawings	10/88–10/94
Wiring Schematic for Lampholders with Separate Lamp Test Function	10/95
LED Technical Information	10/96
22mm Communication Capable Networked Products	
As Interface Adapter For E-Stop	10/97
Assembled Enclosures	10/98

Contents	Pages
Field Assembled Components for Enclosures	10/99–10/100
Custom Enclosures and Panel Modules ...	10/101–10/108
As-Interface LED's	10/109
Class 50 Standard Duty Control Stations	
Introduction	10/110
Standard Duty Type 1 and 1B	10/111–10/115
Heavy Duty Type 4 Stations	10/116
Class 50 Accessories	10/117
Class 51 NEMA Type 7/9 Hazardous Location Pilot Devices	
Introduction	10/119
Pushbutton and Push-pull Operators	10/120
Indicator Lights	10/121
Push to Test/Illuminated Pushbutton Complete Units	10/122
Selector Switch Operators	10/123
Keyed Selector Switch Operators	10/124
Cam Selection Guide for Selector Switch	10/125
Stations and Enclosures	10/126
Accessories	10/127–10/128
Class 52 30.5mm Mounting Diameter Pilot Devices	
Introduction	10/129
Class 52 Oiltight N4/13	
Complete Pushbutton Units	10/130
Complete Push-pull Units	10/131–10/134
Complete Twist-to-Release Units	10/135
Indicator Lights and Push to Test/Illuminated Pushbuttons	10/136–10/137
Complete Selector Switches and Keyed Selector Switches	10/138–10/139
Pushbuttons, Push-pull & Twist-to-Release Operators ...	10/140
Selector Switch, Selector Pushbutton and Keyed Selector Operators	10/141–10/143
Specialty Operators	10/144
Class 52 Black Max N4/4X/13	
Complete Pushbutton Units	10/145
Complete Push-pull Units	10/146–10/149
Complete Twist-to-Release Units	10/150
Indicator Lights and Push to Test/Illuminated Pushbuttons	10/151–10/152
Complete Selector Switches	10/153
Pushbuttons, Push-pull & Twist-to-Release Operators ...	10/154
Selector Switch Operators	10/155
Cam Selection Guide for Selector Switch, Keyed Selector Switch and Selector Pushbutton	10/156–10/157
Contact Blocks	10/160
Accessories and Spare Parts	10/158–10/161
Dimensional Drawings	10/162–10/164
Class 52 30.5mm Enclosed Pushbutton Stations	
Assembled Enclosures with Standard Devices	10/165–10/166
P30 Empty Enclosures Only	10/167
Enclosure Legend Plates	10/168
Enclosure Dimensions	10/169
Technical Specifications	10/169a
Sirius Signal Columns	
Introduction	10/170
Technical Specifications	10/171
8WD42	10/172
8WD44	10/173–10/174
8WD53	10/175
Dimensional Drawings	10/176–10/178

Control and Signaling Devices

Pushbutton Units and Indicator Lights

16 mm mounting diameter, molded-plastic



3SB2

Page

Selection and ordering data

- 3SB22 complete units 10/6
- 3SB20 pushbuttons and lens assemblies 10/8
- 3SB2 holders, lampholders and contact blocks 10/10
- 3SB29 inserts, legend plates, and accessories 10/12

Introduction	10/4
Technical specifications	10/5
Dimension drawings	10/18

22 mm mounting diameter, metal



SIRIUS 3SB3, metal round

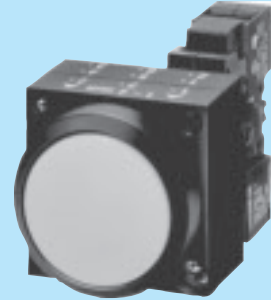
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Selection and ordering data

- 3SB36 complete units 10/23
- 3SB35 pushbuttons and lens assemblies with holder 10/27
- 3SB34 contact blocks and lampholders 10/60
- 3SB3 accessories 10/70

Introduction	10/19
Technical specifications	10/21
Dimension drawings	10/88

22 mm mounting diameter, molded-plastic



SIRIUS 3SB3, plastic round

Page

Selection and ordering data

- 3SB32 complete units 10/37
- 3SB30 pushbuttons and lens assemblies with holder 10/42
- 3SB31 twin pushbuttons 10/53
- 3SB34 contact blocks and lampholders 10/60
- 3SB19, 3SB39 accessories 10/53, 10/70

Introduction	10/19
Technical specifications	10/21
Dimension drawings	10/88

26 mm x 26 mm mounting cutout, molded-plastic



SIRIUS 3SB3, plastic square

Page

Selection and ordering data

- 3SB33 complete units 10/54
- 3SB31 pushbuttons and lens assemblies with holder 10/56
- 3SB34 contact blocks and lampholders 10/60
- 3SB39 accessories 10/70

Introduction	10/19
Technical specifications	10/21
Dimension drawings	10/88

Enclosed devices, 22 mm mounting diameter



SIRIUS 3SB3

Page

Selection and ordering data

- 3SB34 contact blocks and lampholders 10/77
- 3SB38 empty enclosures 10/77
- 3SB38 enclosures with standard equipment 10/76
- 3SB38 enclosures with choice of equipment 10/81
- 3SB39 accessories, labels 10/79

Introduction	10/75
Dimension drawings	10/88

Communication-capable switching devices



SIRIUS 3SF3

Page

Selection and ordering data

- Assembled enclosures 10/98
- Field assembled components for enclosures 10/99-10/100
- Custom enclosures 10/101
- AS Interface LEDs 10/109

Standard duty control stations



Class 50

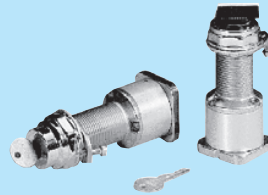
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Selection and ordering data

- Standard duty Type 1 and 1B 10/111
- Heavy duty Type 4 10/116
- Class 50 accessories 10/117

Introduction	10/110
Technical specifications	10/110
Dimension drawings	10/118

Type 7/9 hazardous location— 3/4"–14 NPSM



Class 51

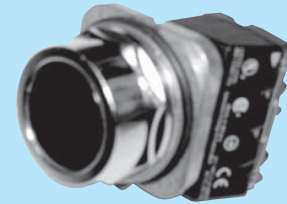
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Selection and ordering data

- Push pull complete units 10/120
- Selector switches 10/123
- Pilot lights 10/121
- Push to test/illuminated pushbuttons 10/122
- Cam selection guide 10/125
- Stations and enclosures 10/126
- Accessories 10/127
- 10/127

Introduction	10/119
Technical specifications	10/119

30.5 mm mounting diameter, Type 4/13 watertight/oiltight



Class 52

Page

Selection and ordering data

- 52PA/PB complete assembled pushbutton units 10/130
- 52 PA2/PA3 pushpull complete assembled units 10/131
- 52SA/SB selector switch complete assembled units 10/138
- Pilot lights/push to test/illuminated pushbutton 10/136
- Pushbutton operators only 10/139
- Selector switch operators only 10/141
- Specialty operators 10/144

Introduction	10/129
Technical specifications	10/131
Dimension drawings	10/162

30.5 mm mounting diameter, Type 4/4X/13 corrosion resistant, watertight/oiltight



Class 52 Black Max

Page

Selection and ordering data

- 52PX complete assembled pushbutton units 10/145
- 52PX2/PX3 pushpull complete assembled units 10/146
- 52SX/SW selector switch complete assembled units 10/153
- Pilot lights/push to test/illuminated pushbutton 10/151
- Pushbutton operators only 10/154
- Selector switch operators only 10/155
- Class 52 accessories 10/158

30.5 mm heavy duty control stations, Type 4/4X/12/13 enclosures



Class 52

Page

Selection and ordering data

- Class 52 assembled stations with standard offerings 10/165
- P30 enclosures only 10/167
- Custom station order form 10/167
- Legend plates 10/168

SIRIUS signal columns and built-in signal beacons

8WD42



8WD44



8WD53



Lamp & LED version, enclosure diameters 50 and 70 mm

Selection and ordering data

- 8WD42 selection and accessories 10/172
- 8WD44 selection and accessories 10/173
- 8WD53 selection and accessories 10/175

Introduction	10/170
Technical specifications	10/171
Dimension drawings	10/176

Pushbutton Units and Indicator Lights

3SB2, Mounting Diameter 16 mm

Introduction

Overview

The 3SB2 pushbuttons and indicator lights are provided for front plate mounting and rear connection with flat connectors. For use on printed circuit boards, contact blocks and lampholders with solder pins are also available.

Standards

IEC 60947-5-1, EN 60947-5-1,

IEC 60947-5-5, EN 60947-5-5

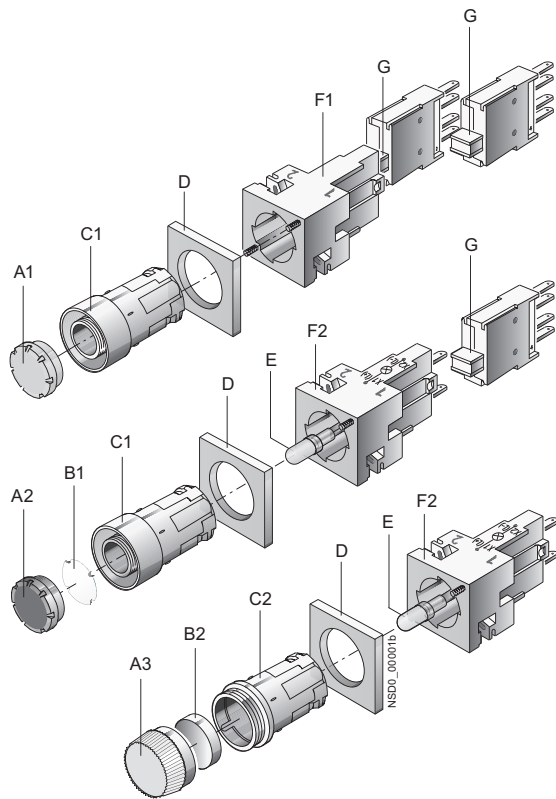
for EMERGENCY-STOP mushroom pushbuttons.

Version with flat connector

Connections

The contact blocks and the lamp holder are equipped with tab connector in accordance with IEC 60 760 which can also be used as solder-pin terminals.

To permit through-connection all terminals are provided with two tabs.



- A1 Illuminated pushbutton, flat
- A2 Pushbutton, flat
- A3 Screw lens for indicator light
- B1 Insert label for inscription
- B2 Insert cap for inscription
- C1 Collar with extruded front ring
- C2 Collar for indicator light
- D Frame for square design
- E Wedge-Base lamps W2 x 4.6 d
- F1 Holder
- F2 Lampholder with holder
- G Contact blocks (1 NO or 1 NC) for snapping on to holder and/or lampholder

Versions Available

Round design

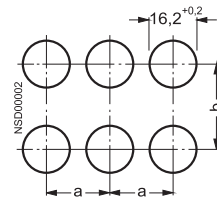
The 3SB2 pushbuttons and indicator lights are assembled with the elements – actuator, holder, contact block and lampholder. Depending on the specific application, various versions can be assembled. Complete units are offered for the most commonly used applications.

Square design

With the square design, black frames the round units giving them a square look. The frames are inserted underneath the round actuators. Further mounting is the same as for the round design.

Mounting and fixing

Mounting dimensions acc. to EN 50 007:



Minimum clearance (mm)	a	b
Round design	19	19
Square design without inscription plate	21	21
Round and square designs with inscription plates	21	32
2 rotary buttons and 3 switching positions, maintained contact, side by side	21	21

For fixing, the actuator or the lens assembly is inserted from the front into the hole in the frontplate. Four small nubs ensure a secure fitting in the hole. The holder is plugged on the actuator or the lens assembly from behind and automatically snaps into place. The element is screwed down tightly with screws on the holder and thus levels panel thickness from 1 to 6 mm.

The contact blocks are inserted into the holder with slide slots and held down with two snap brackets. If a command position is equipped with an indicator light or illuminated pushbutton, the holder already incorporates connections for the lamp. It is also used for fixing the contact blocks.

Connections

Flat connections and solder pin connections are available. The contact blocks and lamp holder are equipped with tab connector in accordance with IEC 60 760 which can also be used as solder-pin terminals. To permit through-connection all terminals are provided with two tabs.

Application

The devices are climate-proof and suitable for marine applications.

Safety EMERGENCY-STOP according to ISO 13850

For controls that comply with IEC 60204-1 or EN 60204-1, the mushroom pushbuttons of the 3SB2 series are suitable for use as safety EMERGENCY-STOP pushbuttons.

Safety circuits

The standards IEC 60947-5-1 or EN 60947-5-1 require positive opening. Hence for the purposes of personal safety, the assured opening of NC contacts is expressly stipulated for the electrical equipment of machines in all safety circuits and marked according to IEC 60947-5-1 with the symbol .


Category 4 according to EN 954-1 can be attained with the EMERGENCY-STOP mushroom pushbuttons if the corresponding failsafe evaluation units are selected and correctly installed, e. g. the 3TK28 safety relays or matching units from the ASI-safe, SIMATIC or SINUMERIK product ranges.

Pushbutton Units and Indicator Lights

3SB2, Mounting Diameter 16 mm

Technical Specifications

Technical data according to IEC 60 947-5-1 (DIN VDE 0660 Part 200)



Rated insulation voltage U_i	250 V
Rated operational voltage U_e	250 V AC/DC
Conventional thermal current I_{th} = rated operational current $I_e/AC-12$	10 A
Rated operational currents	
• $I_e/AC-15$	at 24 V 4 A 60 V 4 A 110 V 4 A 230 V 4 A
• $I_e/DC-12$	at 24 V 6 A 60 V 5 A 110 V 2.5 A 230 V 1 A
• $I_e/DC-13$	at 24 V 3 A 60 V 1.5 A 110 V 0.7 A 230 V 0.3 A
<p>©, ® and  data</p> <p>Rated voltage</p> <ul style="list-style-type: none"> • Contact blocks • Indicator light, lamp with wedge base W2 x 4.6 d <p>Conventional free-air thermal current</p> <p>Switching capacity</p>	<p>250 V AC max.</p> <p>max. 60 V; 1 W</p> <p>5 A</p> <p>B 300, R 300</p>
Contact safety	
Test voltage/test current	5 V/1 mA
Short-circuit protection (without any welding according to DIN VDE 0660, Part 200)	
• DIAZED fuse left, utilization category gL/gG	10 A TDz, 16 A Dz
• Miniature circuit-breaker, with G characteristic acc. to DIN VDE 0641	10 A
Mechanical endurance	
• Pushbutton units and contact blocks	10 x 10 ⁶ operating cycles
• Actuators, rotary or maintained contact	4 x 10 ⁵ operating cycles
• Illuminated pushbuttons	3 x 10 ⁶ operating cycles
Electrical endurance	
with AC-15 duty	10 x 10 ⁶ operating cycles
Climatic stress	Climate-proof; suitable for use on board ship
Ambient temperature	
• using LEDs or for non-illuminated devices	-25 to +70 °C
• using illuminated devices with incandescent lamps	-25 to +60 °C
Degree of protection acc. to IEC 60 529 (DIN VDE 0470)	
• Connection of contact blocks and lampholders behind the front panel	IP 00
• Switchrooms of the contact blocks behind the front panel	IP 40
• Actuators and indicators	IP 65
• Actuator and indicators with protective cap	IP 67
Lamps	Wedge-Base W2 x 4.6 d: 6, 12, 24, 30, 48, 60 V; max. 1 W
Connections	
Clamp-type terminal with tab connectors for push-on ferrules to IEC 60 760	Tab connector 2 x 2.8/0.8 mm
Protective measures	<p>Safety requirements are met automatically when the actuators and lens assemblies are mounted on <u>metal front plates</u> and housings.</p> <p>When mounted in insulated enclosures, the "protective insulation" safety requirements are met.</p> <p>With voltages > AC 50 V or DC 120 V insulating sleeves must be fitted to the unassigned tab connections.</p>
Safety from finger touch to DIN VDE 0106 Part 100 and VBG 4	
Shock resistance according to IEC 60 068, Part 2-27	
• Shock amplitude	≤ 50 g
• Shock duration	11 ms
• Shock form	Half-sine

Pushbutton Units and Indicator Lights

3SB2, Mounting Diameter 16 mm

Complete units

Selection and ordering data

	Version	Color of operator	Contact blocks	Order No.	List Price \$	Weight approx.	Pack					
			Version		1 unit	kg	Unit					
Pushbutton units and illuminated pushbutton units with flat button 	Pushbutton units with flat button	black	1 NO	3SB22 02-0AB01		0.015	1					
		black	1 NC	3SB22 03-0AB01								
		red	1 NC	3SB22 03-0AC01								
		yellow	1 NO	3SB22 02-0AD01								
		green	1 NO	3SB22 02-0AE01								
		blue	1 NO	3SB22 02-0AF01								
		white	1 NO	3SB22 02-0AG01								
		clear ¹⁾	1 NO	3SB22 02-0AH01								
		Illuminated pushbutton units with flat button										
		with lamp holder W2 x 4.6 d ²⁾	red	1 NC				3SB22 07-0AC01		0.017	1	
	yellow ¹⁾	1 NO	3SB22 06-0AD01									
	green	1 NO	3SB22 06-0AE01									
	blue	1 NO	3SB22 06-0AF01									
	clear ¹⁾	1 NO	3SB22 06-0AH01									
Operational voltage 24 V AC/DC with lamp holder W2 x 4.6 d and incandescent lamp 24 V	red	1 NC	3SB22 27-0AC01		0.018	1						
	yellow ¹⁾	1 NO	3SB22 26-0AD01									
	green	1 NO	3SB22 26-0AE01									
	blue	1 NO	3SB22 26-0AF01									
	clear ¹⁾	1 NO	3SB22 26-0AH01									
Pushbutton units and illuminated pushbutton units with raised button 	Pushbutton units with raised button	black	1 NO	3SB22 02-0LB01		0.015	1					
		red	1 NC	3SB22 03-0LC01								
		yellow	1 NO	3SB22 02-0LD01								
		blue	1 NO	3SB22 02-0LF01								
		clear ¹⁾	1 NO	3SB22 02-0LH01								
		Illuminated pushbutton units with raised button										
		with lamp holder W2 x 4.6 d ²⁾	red	1 NC				3SB22 07-0LC01		0.017	1	
			yellow ¹⁾	1 NO				3SB22 06-0LD01				
			green	1 NO				3SB22 06-0LE01				
			blue	1 NO				3SB22 06-0LF01				
	clear ¹⁾	1 NO	3SB22 06-0LH01									
Operational voltage 24 V AC/DC with lamp holder W2 x 4.6 d and incandescent lamp 24 V	red	1 NC	3SB22 27-0LC01		0.018	1						
	yellow ¹⁾	1 NO	3SB22 26-0LD01									
	green	1 NO	3SB22 26-0LE01									
	blue	1 NO	3SB22 26-0LF01									
	clear ¹⁾	1 NO	3SB22 26-0LH01									

1) Inscription by inserting a label is possible.












2) For wedge base lamps, see page 10/16.

Pushbutton Units and Indicator Lights

3SB2, Mounting Diameter 16 mm

Complete units

Selection and ordering data

Version	Type	Color of operator/key removable in position	Contact blocks	Order No.	List Price \$	Weight approx.	Pack			
			Version		1 unit	kg	Unit			
	Selector switch unit, 2 switching positions, switching sequence O-I Maintained, 62° operating angle 		black red green white	1 NO 1 NO 1 NO 1 NO	3SB22 02-2AB01 3SB22 02-2AC01 3SB22 02-2AE01 3SB22 02-2AG01	0.017	1			
	Selector switch unit, 3 switching positions, switching sequence I-O-II Maintained, 2 x 62° operating angle 		black red green white	1 NO, 1 NO 1 NO, 1 NO 1 NO, 1 NO 1 NO, 1 NO	3SB22 10-2DB01 3SB22 10-2DC01 3SB22 10-2DE01 3SB22 10-2DG01	0.017	1			
	Momentary, Spring return from left and right, 2 x 50° operating angle 		black red green white	1 NO, 1 NO 1 NO, 1 NO 1 NO, 1 NO 1 NO, 1 NO	3SB22 10-2EB01 3SB22 10-2EC01 3SB22 10-2EE01 3SB22 10-2EG01	0.022	1			
		Key-operated switch units, 2 positions, switching sequence O-I Maintained, 62° operating angle 		CES	Lock No. SB2	O O+I	1 NO 1 NO	3SB22 02-4LA01 3SB22 02-4LB01	0.03	1
		Key-operated switch units, 3 positions, switching sequence I-O-II Maintained, 2 x 62° operating angle 		CES	Lock No. SB2	O I + O + II	1 NO, 1 NO 1 NO, 1 NO	3SB22 10-4PA01 3SB22 10-4PB01	0.035	1
		Momentary, Spring return from left and right, 2 x 50° operating angle 				O	1 NO, 1 NO	3SB22 10-4QA01	0.035	1
	EMERGENCY-STOP mushroom pushbutton unit acc. to EN 418, latching ²⁾ with yellow backing plate with inscription "NOT-AUS" (in German) Push to lock, twist to release 		red		1 NC		3SB22 03-1AC01	0.043	1	
	Indicator light units with lampholder W2 x 4.6 d ¹⁾		red yellow green white clear				3SB22 04-6BC06 3SB22 04-6BD06 3SB22 04-6BE06 3SB22 04-6BG06 3SB22 04-6BH06	0.012	1	
	Operational voltage 24 V AC/DC with lamp holder W2 x 4.6 d and incandescent lamp 24 V		red yellow green white clear				3SB22 24-6BC06 3SB22 24-6BD06 3SB22 24-6BE06 3SB22 24-6BG06 3SB22 24-6BH06	0.013	1	

➔ Positive opening according to IEC 60 947-5-1, Appendix K, and DIN VDE 0660 Part 200.

1) Wedge-Base lamps see page 10/16.











2) The mushroom pushbutton cannot be combined with 3SB29 02-0AB name plate or 3SB29 02-0AA single frame.

Pushbutton Units and Indicator Lights

3SB2, Mounting Diameter 16 mm

Pushbuttons and selector switches

Selection and ordering data

Version	Color of operator	Order No.	List Price \$ 1 unit	Weight approx. kg	Pack Unit
Pushbutton units and illuminated pushbutton units with flat button 	Pushbuttons with flat button black red yellow green blue white clear ¹⁾	3SB20 00-0AB01 3SB20 00-0AC01 3SB20 00-0AD01 3SB20 00-0AE01 3SB20 00-0AF01 3SB20 00-0AG01 3SB20 00-0AH01		0.005	1
	Illuminated pushbuttons with flat button red yellow ¹⁾ green blue white clear ¹⁾	3SB20 01-0AC01 3SB20 01-0AD01 3SB20 01-0AE01 3SB20 01-0AF01 3SB20 00-0AG01 3SB20 00-0AH01		0.005	1
Pushbutton units and illuminated pushbutton units with raised button 	Pushbuttons with raised button black red yellow blue white clear ¹⁾	3SB20 00-0LB01 3SB20 00-0LC01 3SB20 00-0LD01 3SB20 00-0LF01 3SB20 00-0LG01 3SB20 00-0LH01		0.006	1
	Illuminated pushbuttons with raised button red yellow ¹⁾ green blue clear ¹⁾	3SB20 01-0LC01 3SB20 01-0LD01 3SB20 01-0LE01 3SB20 01-0LF01 3SB20 00-0LH01		0.006	1
EMERGENCY-STOP mushroom pushbutton 	EMERGENCY-STOP mushroom pushbutton acc. to EN 418, Maintained²⁾ Push to lock, twist to release	3SB20 00-1AC01		0.013	1
Selector switch with 2 switching positions					
Selector switch 	 Switching sequence O-I, maintained, 62° operating angle	black red green white	3SB20 00-2AB01 3SB20 00-2AC01 3SB20 00-2AE01 3SB20 00-2AG01	0.007	1
	 Switching sequence O-I, momentary, spring return from right, 50° operating angle	black red green	3SB20 00-2BB01 3SB20 00-2BC01 3SB20 00-2BE01	0.007	1
	 Switching sequence O-I, maintained, 90° operating angle	black red green white	3SB20 00-2HB01 3SB20 00-2HC01 3SB20 00-2HE01 3SB20 00-2HG01	0.007	1
Selector switch with 3 switching positions					
	 Switching sequence I-O-II, maintained, 2 x 62° operating angle	black red green white	3SB20 00-2DB01 3SB20 00-2DC01 3SB20 00-2DE01 3SB20 00-2DG01	0.007	1
	 Switching sequence I-O-II, momentary, spring return from left and right, 2 x 50° operating angle	black red green white	3SB20 00-2EB01 3SB20 00-2EC01 3SB20 00-2EE01 3SB20 00-2EG01	0.007	1
	 Switching sequence I-O-II, maintained, 2 x 90° operating angle	black	3SB20 00-2JB01	0.007	1

For contact blocks and lamp holders, see pages 10/10-10/11.

For insert labels and caps, see pages 10/12-10/15.

For other Accessories, see pages 10/15-10/16.

1) Inscription by inserting a label is possible.






2) The mushroom pushbutton unit cannot be combined with 3SB29 02-0AB name plate and 3SB29 02-0AA single frame.

Pushbutton Units and Indicator Lights

3SB2, Mounting Diameter 16 mm


Key-operated switches

Selection and ordering data

Version	Type	Lock No.	Key remov-able in position	Order No.	List Price \$	Weight approx.	Pack
					1 unit	kg	Unit
 CES key-operated switch	Key-operated switches with 2 keys and 2 switching positions						
		Switching sequence O-I, maintained, 62° operating angle	CES SB2	O+I O	3SB20 00-4LB01 3SB20 00-4LA01	0.02	1
		Switching sequence O-I, momentary, Spring return from right, 50° operating angle	CES SB2	O	3SB20 00-4MA01	0.02	1
	Key-operated switches with 2 keys and 3 switching positions						
	Switching sequence I + O + II, maintained, operating angle 2 x 62°	CES SB2	I+O+II O	3SB20 00-4PB01 3SB20 00-4PA01	0.02	1	
	Switching sequence I + O + II, momentary, Spring return from right and left, operating angle 2 x 50°	CES SB2	O	3SB20 00-4QA01	0.02	1	

Indicator Lights

Selection and ordering data

Version	Color of screw lens	Order No.	List Price \$	Weight approx.	Pack
			1 unit	kg	Unit
 Indicator light	Indicator lights with concentric rings (Inscription with insert cap not possible)	red yellow green blue white clear	3SB20 01-6BC06 3SB20 01-6BD06 3SB20 01-6BE06 3SB20 01-6BF06 3SB20 01-6BG06 3SB20 01-6BH06	0.005	1
	Indicator lights suitable for inscription with insert caps¹⁾	red yellow green blue clear	3SB20 01-6CC06 3SB20 01-6CD06 3SB20 01-6CE06 3SB20 01-6CF06 3SB20 01-6CH06	0.005	1

For contact blocks and lamp holders, see pages 10/10-10/11.
For insert labels and caps, see pages 10/12-10/15.

For other accessories, see pages 10/15-10/16.

1) Insert caps see pages 10/12 to 10/13.

Pushbutton Units and Indicator Lights

3SB2, Mounting Diameter 16 mm

Holders, lampholders and contact blocks with tab connection

Selection and ordering data

Version	Symbols	Contact travel	Order No.	List Price \$	Weight approx.	Pack
		<input type="checkbox"/> contact closed <input type="checkbox"/> contact open		1 unit	kg	Unit
Holder for 2 contact blocks	Holder for 2 contact blocks	Inscription with sequence number 1-2	3SB29 08-0AA		0.005	1
Lampholder	Lampholder W2 x 4.6 d without lamp		3SB23 04-2A		0.006	1
	Lampholder W2 x 4.6 d		3SB23 04-2F 3SB23 04-2H		0.007	1
Voltage reducer	Voltage reducer¹⁾ for connecting a 3SB29 08-1AE lamp (48 V) to 230 V AC		3SB24 04-3D		0.02	1
Contact block	Contact blocks with one contact²⁾					
	1 NO		3SB24 04-0B		0.005	1
	1 NC		3SB24 04-0C		0.005	1

Positive opening according to IEC 60 947-5-1, Appendix K, and DIN VDE 0660 Part 200.

1) Use support point terminal according to DIN VDE 0660, Part 500

2) For plug-in and insulation sleeves see page 10/16.





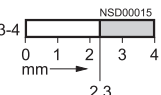

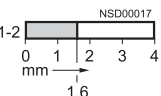

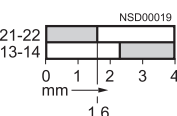

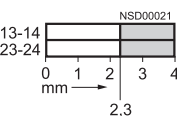

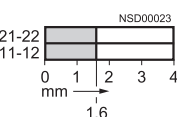

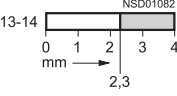

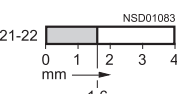

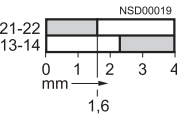

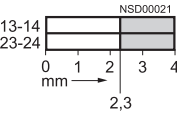

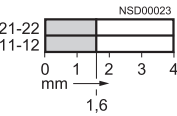
Pushbutton Units and Indicator Lights

3SB2, Mounting Diameter 16 mm

Holders, lampholders and contact blocks with solder pins



Selection and ordering data

Version	Symbols	Contact travel	Order No.	List Price \$	Weight approx.	Pack
		<input type="checkbox"/> contact closed <input type="checkbox"/> contact open		1 unit	kg	Unit
Holder	Holder For fixing the actuators in the front panel with solder pins	-	3SB29 08-0AB		0.006	1
	Lampholder Wedge base W2 x 4.6 d	(L+) X1  (L-) X2	3SB24 55-2A		0.006	1
Contact blocks						
	1 NO			3SB24 55-0B	0.006	1
	1 NC			3SB24 55-0C	0.006	1
	1 NO + 1 NC			3SB24 55-0J	0.007	1
	1 NO + 1 NO			3SB24 55-0E	0.007	1
	1 NC + 1 NC			3SB24 55-0F	0.007	1
	Contact blocks and lampholders, wedge base W2 x 4.6 d¹⁾					
	1 NO			3SB24 55-1B	0.008	1
	1 NC			3SB24 55-1C	0.008	1
	1 NO + 1 NC			3SB24 55-1J	0.008	1
	1 NO + 1 NO			3SB24 55-1E	0.008	1
	1 NC + 1 NC			3SB24 55-1F	0.008	1

For PCB mounting overview, see page 10/17.

 Positive opening according to IEC 60 947-5-1, appendix K, and DIN VDE 0660 Part 200.

1) The lamp is sold separately.

Pushbutton Units and Indicator Lights

3SB2, Mounting Diameter 16 mm

Insert labels and insert caps

Design








Clear pushbuttons, illuminated pushbuttons and indicator lights can be fitted with insert labels and caps for identification purposes.

These labels and caps are made of a semi-transparent molded plastic with black lettering and can be fitted in any 90° position.

Inscription

The inscription has capital initial letters. The symbols are in accordance with the IEC or ISO.

Selection and ordering data
















Inscription	Consecutive No. acc. to DIN Report 4	Insert labels for flat pushbuttons and illuminated pushbuttons		Insert caps for raised pushbuttons and illuminated pushbuttons		Insert caps for light indicators		Pack	
		Order No.	List Price \$ 1 unit	Order No.	List Price \$ 1 unit	Order No.	List Price \$ 1 unit		
Without inscription		3SB29 01-4AA		3SB29 01-5AA		3SB29 01-7AA		Unit	
On		3SB29 01-4EB		–		–		1	
Start		3SB29 01-4EK		–		–			
Stop		3SB29 01-4EL		–		–			
Reset		3SB29 01-4EM		–		–			
Test		3SB29 01-4EN		–		–			
0		3SB29 01-4RA		3SB29 01-5RA		–		1	
1		3SB29 01-4RB		3SB29 01-5RB		–			
2		3SB29 01-4RC		3SB29 01-5RC		–			
3		3SB29 01-4RD		3SB29 01-5RD		–			
4		3SB29 01-4RE		3SB29 01-5RE		–			
5		3SB29 01-4RF		3SB29 01-5RF		–			
6		3SB29 01-4RG		3SB29 01-5RG		–			
7		3SB29 01-4RH		3SB29 01-5RH		–			
8		3SB29 01-4RJ		3SB29 01-5RJ		–			
9		3SB29 01-4RK		3SB29 01-5RK		–			
Symbols									
	Off	5008 IEC	3SB29 01-4MB	3SB29 01-5MB		–		1	
	On	5007 IEC	3SB29 01-4MC	3SB29 01-5MC		–			
		–	3SB29 01-4MD	–		–			
Equipment symbols									
	Electric motor	0011 ISO	3SB29 01-4PA	–		–		1	
	Horn	5014 IEC	3SB29 01-4PB	–		–			
	Pump	0134 ISO	3SB29 01-4PD	–		3SB29 01-7PD			
	Coolant pump	0355 ISO	3SB29 01-4PE	–		–			

Pushbutton Units and Indicator Lights

3SB2, Mounting Diameter 16 mm

Insert labels and insert caps

Selection and ordering data

Symbol	Significance	Consecutive No. acc. to DIN Report 4	Insert labels for flat pushbuttons and illuminated pushbuttons		Insert caps for raised pushbuttons and illuminated pushbuttons		Insert caps for light indicators		Pack
			Order No.	List Price \$ 1 unit	Order No.	List Price \$ 1 unit	Order No.	List Price \$ 1 unit	Unit
Motion symbols									
	Motion in direction of arrow	5022 IEC	3SB29 01-4NA		3SB29 01-5NA		-		1
	Motion in direction of arrow	-	3SB29 01-4NB		3SB29 01-5NB		-		
	Clockwise rotation	0004 ISO	3SB29 01-4NC		-		-		
	Anticlockwise rotation	-	3SB29 01-4ND		-		-		
	Fast motion	0266 ISO	3SB29 01-4NE		-		-		
	Increase, plus	5005 IEC	3SB29 01-4NG		3SB29 01-5NG		-		
	Decrease, minus	5006 IEC	3SB29 01-4MC		3SB29 01-5MC		-		
Control symbols									
	Clamp	-	3SB29 01-4QB		3SB29 01-5QB		-		1
	Release	-	3SB29 01-4QC		3SB29 01-5QC		3SB29 01-7QC		
	Brake off	0021 ISO	3SB29 01-4QE		-		-		
	Key-operated switch	0022 ISO	3SB29 01-4QF		-		-		
	Unlock	0023 ISO	3SB29 01-4QG		3SB29 01-5QG		-		
	On/Off, momentary contact	5011 IEC	3SB29 01-4QJ		-		-		
	Manual operation	0096 ISO	3SB29 01-4QK		-		3SB29 01-7QK		
	Automatic sequence	0017 ISO	3SB29 01-4QL		3SB29 01-5QL		-		
Custom Symbol Inscription									
Acc. to IEC or ISO - Symbol Number must be included with order number using the following format: Z = Symbol # (Ex: Z = 0096 ISO)			3SB29 01-4AZK3Y		3SB29 01-5AZK3Y		3SB29 01-7AZK3Y		
Acc. to order - A CAD file (.DXF format) must be provided with order. Please submit file along with the following Z = Please inscribe acc. to file_name.DXF			3SB29 01-4AZK9Y		3SB29 01-5AZK9Y		3SB29 01-7AZK9Y		
Custom Text Incriptions - One line with 6 character positions, with 3mm letter height - Inscription must be submitted with order using the following format: Z = Inscribed text (Ex: Z = PUMP B)									
Capital initial letters			3SB29 01-4AZK0Y		3SB29 01-5AZK0Y		3SB29 01-7AZK0Y		
Capital letters			3SB29 01-4AZK1Y		3SB29 01-5AZK1Y		3SB29 01-7AZK1Y		
Lower-case letters			3SB29 01-4AZK2Y		3SB29 01-5AZK2Y		3SB29 01-7AZK2Y		
Acc. to order - Capitalization will appear exactly as provided			3SB29 01-4AZK9Y		3SB29 01-5AZK9Y		3SB29 01-7AZK9Y		

Pushbutton Units and Indicator Lights

3SB2, Mounting Diameter 16 mm

Inscription with backing plates

Design

The backing plates consist of a black molded plastic holder and an adhesive inscription plate (silver with black).

Inscription

The inscription (and the special inscription) is lower-case with initial capitals.

Note insert dimensions!

Selection and ordering data

Version	Order No.	List Price \$ 1 unit	Pack Unit
Label holder for inscription plate	3SB29 02-0AB		1
Adhesive inscription plate¹⁾ 9.5 × 18.5 mm			
Inscription			
blank	3SB29 01-2AA		1
On	3SB29 01-2EB		1
Off	3SB29 01-2EC		
Start	3SB29 01-2EL		1
Reset	3SB29 01-2EM		
Fault	3SB29 01-2EW		1
Hand Auto	3SB29 01-2BA		
Hand 0 Auto	3SB29 01-2BE		
Man 0 Auto	3SB29 01-2ET		
Symbols			
O	5008 IEC	3SB29 01-2MB	1
I	5007 IEC	3SB29 01-2MC	
O I	-	3SB29 01-2MF	
→	50021 IEC	3SB29 01-2NA	
Custom Symbol Inscription			
Acc. to IEC or ISO		3SB29 01-4AZK3Y	
- Symbol Number must be included with order number using the following format: Z = Symbol # (Ex: Z = 0096 ISO)			
Acc. to order		3SB29 01-4AZK9Y	
- A CAD file (.DXF format) must be provided with order. Please submit file along with the following Z = Please inscribe acc. to file_name.DXF			
Custom Text Inscriptions			
- One line with 6 character positions, with 3mm letter height			
- Inscription must be submitted with order using the following format: Z = Inscribed text (Ex: Z = PUMP B)			
Capital initial letters		3SB29 01-4AZK0Y	
Capital letters		3SB29 01-4AZK1Y	
Lower-case letters		3SB29 01-4AZK2Y	
Acc. to order		3SB29 01-4AZK9Y	
- Capitalization will appear exactly as provided			

Label holder for inscription plate



Adhesive inscription plate



1) Must not be used with the 3SB2...-1AC01 EMERGENCY STOP mushroom pushbutton unit.

Pushbutton Units and Indicator Lights

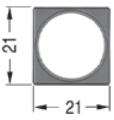
3SB2, Mounting Diameter 16 mm

Square design

Design






The 3SB2 pushbuttons and indicator lights can be constructed in square design using square frames of black molded plastic in combination with the actuators and lens assemblies.

Selection and ordering data

Version	Order No.	List Price \$ 1 unit	Pack Unit
 Single Frame¹⁾	3SB29 02-0AA		1

Accessories and spare parts

Selection and ordering data

Version	Color	Order No.	List Price \$ 1 unit	Pack Unit		
	Buttons, flat					
	• for pushbutton units	black red yellow green blue white clear	3SB29 10-0AB 3SB29 10-0AC 3SB29 10-0AD 3SB29 10-0AE 3SB29 10-0AF 3SB29 10-0AG 3SB29 10-0AH	1		
	• for illuminated pushbutton units	red yellow green blue white clear	3SB29 10-0CC 3SB29 10-0CD 3SB29 10-0CE 3SB29 10-0CF 3SB29 10-0AG 3SB29 10-0AH	1		
		Buttons, raised				
		• for pushbutton units	black red yellow clear	3SB29 10-0BB 3SB29 10-0BC 3SB29 10-0BD 3SB29 10-0BH	1	
		• for illuminated pushbutton units	red yellow clear	3SB29 10-0DC 3SB29 10-0DD 3SB29 10-0BH	1	
			Screw lenses			
	• with concentric rings		red yellow green blue white clear	3SB29 10-1AC 3SB29 10-1AD 3SB29 10-1AE 3SB29 10-1AF 3SB29 10-1AG 3SB29 10-1AH	1	
	• smooth, for labelling using insert cap		red yellow green blue clear	3SB29 10-1BC 3SB29 10-1BD 3SB29 10-1BE 3SB29 10-1BF 3SB29 10-1BH	1	
			Backing plate, Ø 50 mm, as contrast surface, self-adhesive			
			• blank	yellow	3SB29 08-2AF	1
			• with inscription "NOT-AUS" (in German)		3SB29 08-2AG	1
			Key for CES key-operated switch, lock No. SB2		3SB29 08-2AJ	1


1) Must not be used with the 3SB2...-1AC01 EMERGENCY STOP mushroom pushbutton!

Pushbutton Units and Indicator Lights

3SB2, Mounting Diameter 16 mm

Accessories and spare parts

Selection and ordering data

Version	Color	Lamp voltage	Order No.	List Price \$ 1 unit	Pack
			Preferred type		Unit
	Protective cap, clear Silicone, for pushbutton units with flat and raised pushbutton		3SB29 08-3AB		1
	Incandescent lamps Wedge base W2 x 4.6 d, 1.0 W		3SB29 08-1AA 3SB29 08-1AB 3SB29 08-1AC 3SB29 08-1AD 3SB29 08-1AE 3SB29 08-1AF		10
		6 V AC/DC 12 V AC/DC 24 V AC/DC 30 V AC/DC 48 V AC/DC 60 V AC/DC			
	LEDs, super-bright Wedge base W2 x 4.6 d		3SB39 01-1SB 3SB39 01-1RB 3SB39 01-1TB 3SB39 01-1UB 3SB29 08-1BD		10
	red yellow green white blue	24 V AC/DC 24 V AC/DC 24 V AC/DC 24 V AC/DC 24 V AC/DC			
	red yellow green white blue	28 V AC/DC 28 V AC/DC 28 V AC/DC 28 V AC/DC 28 V AC/DC	3SB39 01-1SE 3SB39 01-1RE 3SB39 01-1TE 3SB39 01-1UE 3SB39 01-1VE		10
	Lamp extractor for lamps with base W2 x 4.6 d		3SB29 08-2AB		1
	Mounting tool for pushbuttons and screw lenses		3SB29 08-2AC		1
	Dismounting tool for holder and lamp holder with holder		3SB29 08-2AA		1
	Blanking plug black plastic (degree of protection IP 65)		3SB29 08-3AA		50
	Plug-in sleeve for flat connectors 2.8 x 0.8 mm Cross-section 0.5 to 1.5 mm ²		3SB29 08-8AA		250
	Insulation sleeve for flat connectors, connection from the front		3SB29 08-8AB		1
	Complete connector ¹⁾ for connecting contact blocks and lamp holders (up to 10 connections). Provides safety from fingertouch acc. to IEC 61140 and VBG4.		3SB29 08-8AD		1
	Plug-in sleeve for flat connections 2.8 x 0.8 mm with locating spring for latching in complete connector.		3SB29 08-8AE		250

1) Required 3SB329 08-8AE plug-in sleeve for flat connectors are sold separately.

Pushbutton Units and Indicator Lights

3SB2, Mounting Diameter 16 mm

For PCB mounting

Overview

For use on PCBs, 3SB2 contact blocks and lampholders with solder pins are available.

Specifications

DIN VDE 0660 and IEC 60 947-5-1.

Design

The control point consists of the actuator, e.g. 3SB2 plain pushbutton, illuminated pushbutton or indicator light (see page 10/8), which is mounted in the front plate, and a contact block and a lampholder which are soldered to the PCB. For this purpose, the contact blocks and lampholders are fitted with 0.8×0.8 mm solder pins of length 3.5 mm.

Only 16 mm diameter actuators can be used.

Mounting and fixing

The mounting dimensions conform to EN 50 007 (see drawings adjacent)

The actuators are mounted in the same way as 3SB2 front-plate mounting devices (see page 10/4).

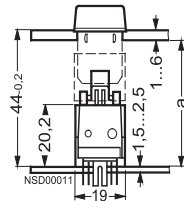
The contact blocks and lampholders plug into printed-circuit board by means of their soldering pins and can be flow-soldered.

After soldering, the devices must be flush with the board and perpendicular to it.

The printed-circuit board must be supported on spacers so that it cannot sag or bend more than 0.1 mm.

Mounting dimensions

Illuminated pushbutton unit
with contact block and lampholder with solder pins



Length of the spacer $a = 44^{-0.2}$ minus front panel thickness.

Length a is reduced by 0.8 mm when backing plates are used

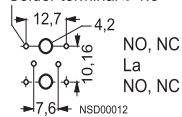
To avoid bending the PCB when the pushbutton units are operated, sufficient spacers must be provided spaced as shown in the table below:

PCB thickness	Max. distance between spacers
1.5 mm	80 mm
2.5 mm	150 mm
When using EMERGENCY-STOP actuators	always 50 mm

(The values apply to PCBs made from epoxy resin laminate with glass fabric base)

Solder pin spacing

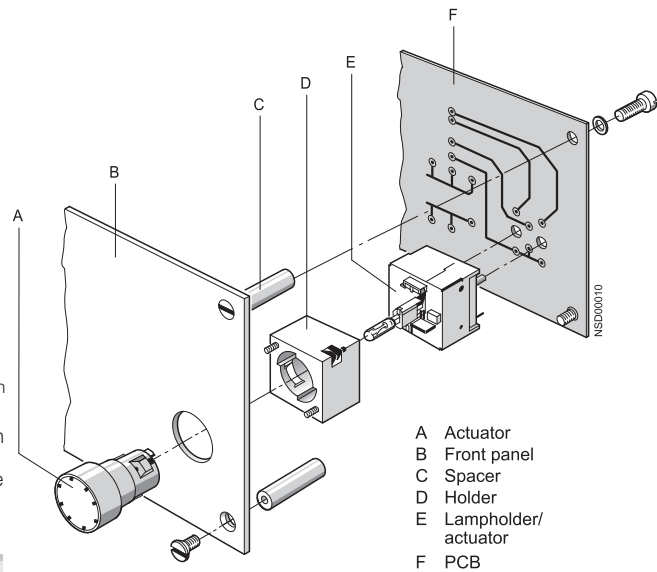
Solder terminal $\varnothing 1.3^{+0.1}$



Technical specifications

see page 10/5.

For holders, lampholders, and contact blocks with solder pins, see page 10/11.



- A Actuator
- B Front panel
- C Spacer
- D Holder
- E Lampholder/actuator
- F PCB

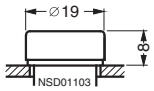
Pushbutton Units and Indicator Lights

3SB2, Mounting Diameter 16 mm

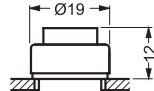
Dimension drawings (mm)

Actuators

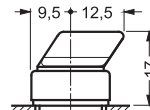
Pushbutton or illuminated pushbutton with flat button



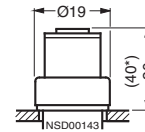
Pushbutton or illuminated pushbutton with raised button



Selector switch

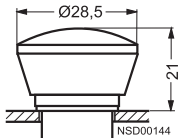


CES key-operated switch

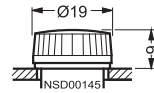


* with key

EMERGENCY-STOP mushroom pushbutton

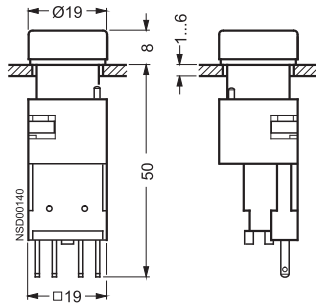


Indicator light



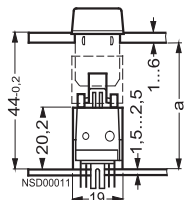
Contact blocks with push-on connection

Pushbutton and contact block with holder for frontplate mounting



Contact blocks with soldering pins for use on printed circuit boards

Illuminated pushbutton unit with contact block and lamp-holder with solder pins

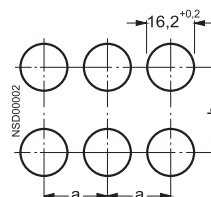


Length **a** of spacers: $a = 44^{-0.2}$ minus front plate thickness.
When using backing plates, the length **a** is reduced by 0.8 mm.
To avoid bending of the PCB when the actuator is operated, sufficient spacers must be provided spaced as shown in the table below:

Maximum PCB thickness	Max. distance between spacers
1.5 mm	80 mm
2.5 mm	150 mm
When using EMERGENCY-STOP actuators	generally 50 mm

(These details are based on epoxy resin glass fibre mat.)

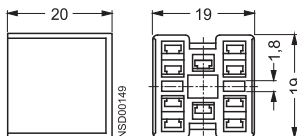
Mounting dimensions



Minimum clearance	a	b
Round design	19	19
Square design without inscription plate	21	21
Round and square designs with 21 inscription plates		32
For 2 selector switches and 3 switching positions, maintained contact, side by side	21	21

Accessories

Complete connector



Overview

The 3SB3 series is a modular range of commanding and signaling devices for front panel mounting and rear conductor connection. As an alternative, individual elements can also be supplied for use on printed circuit boards. Complete units are offered for the most commonly used applications.

The 3SB3 series is available

- Made of molded plastic in flat, round and square design
- Made of metal in round design

The devices are of modern industrial design and can be mounted rapidly by a single person. The operating surfaces of the pushbuttons and illuminated pushbuttons are concave. The lenses of the indicator lights are convex. The metal version with a high degree of protection according to IP67 and NEMA 4 is available for the world market.

One command point comprises:

- An actuator or lens assembly in front of the control panel
- A holder for mounting behind the control panel
- Up to 3 contact blocks and/or 1 lampholder behind the control panel
- A comprehensive range of accessories for inscription

Specifications

IEC 60947-1, EN 60947-1,

IEC 60947-5-1, EN 60947-5-1,

IEC 60947-5-5, EN 60947-5-5

for EMERGENCY-STOP mushroom pushbuttons

Inscription

Inscriptions are possible by inscribing directly onto the actuator by means of a laser, as well as by using labels, inscription plates or the inscription system for SIRIUS.

Inscription is also available by using the new SIRIUS label designer software. It allows custom printed legend plate labels using freeware for Windows and a laser printer. This software can be downloaded [free](http://www2.automation.siemens.com/cd/portal/cd/is_befehlen/html_76/support_tools.htm) from:

http://www2.automation.siemens.com/cd/portal/cd/is_befehlen/html_76/support_tools.htm

General design

A pilot device consists of a front-mounted operating element or lens, a holder for mounting, contact block and/or lamp holder.

The flexibility of the gear holder for the round operator accommodates for panel thickness of 1-6 mm. The square operator accommodates a panel thickness of 1-4 mm.

Gear holder

The gear holder comes from the factory preset in the 1-4 mm position. When mounting the gear holder, the ▲ 1-4 mm ▲ should point towards the mounting surface. The tightening screw is located underneath, on the right.

For a panel thickness of 3 to 6 mm, the holder is reversed and mounted in the direction of the arrow at ▲ 3-6 mm ▲ and the tightening screw is located on the upper right. Also, the tightening screw must be rotated counterclockwise to its limit before mounting the holder.

When using plate legend holders, protective boots or similar accessories, the maximum permissible panel thickness must be reduced by wall thickness of the accessory.

Contact blocks and lampholders

Two contact blocks can be snapped onto the actuator in the standard version. When three contact blocks or illuminated actuators are required, an additional holder must be plugged onto the actuator from the rear.

- 3SB39 01-0AB holder for 3 contact blocks or for 2 contact blocks and 1 lampholder
- 3SB39 01-0AC holder with pressure plates for actuating a central contact block when using a selector switch, key-operated switch and twin pushbutton with 3 contact blocks.

The moving double-break contact blocks ensure a high switching reliability even with small voltages and currents of 5 V/1 mA and above. They are suitable for use in electronic systems, as well as conventional controls.

The switch contacts of the NC contact are positively driven.

A lampholder for lamps with BA 9s (screw connection) and W2 x 4.6 d (solder connection) are available for the illuminated pushbutton units and indicator lights in addition to the contact blocks.

Installation

SIRIUS devices are easily and rapidly connected:

- Operators are positioned through a 22.5 mm hole from the front of the panel
- Align the gear holder and place it on the back of the operator
- Tighten the screw on the gear holder
- Snap on the contact block or the lamp holder directly onto the operating mechanism from the back

Terminals

Devices available are:

- Screw terminal connection,
- Spring loaded terminal connection
- Solder connection (solder pins 0.8 x 0.8 mm)

The 3SB3 command devices have screw connections in the SIGUT termination system. The open terminals, captive screws, funnel-shaped wiring openings and screwdriver fed openings save installation time. Powered screwdrivers can be used.

The connection with cage spring terminal is rapid and the actuators can be mounted flush against each other.

Enclosure

Plastic or metal for 1, 2, 3, 4 or 6 actuators are available for the round model. Enclosures for more than 6 actuators can be supplied upon request.

Communications-capable SIRIUS 3SB3 control devices

The SIRIUS 3SB3 control and signaling devices can be connected to the AS-Interface communication system quickly and safely with the help of various solutions.

The following solutions are available:

- AS-Interface enclosure (with 1 to 6 command points)
- AS-Interface EMERGENCY-STOP
- AS-Interface front panel module (for 4 command points)
- AS-Interface modular components

For selection and ordering data, as well as detailed information, see Catalog IK PI.

For further information on the AS interface refer to Section 14

Pushbutton unit, plastic, with flat button



Pushbutton unit, metal, with flat button

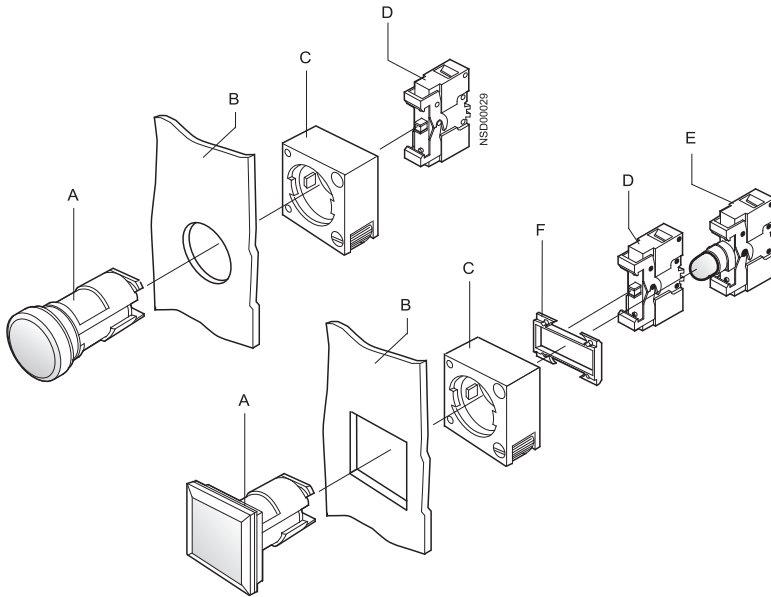


Pushbutton Units and Indicator Lights

SIRIUS 3SB3

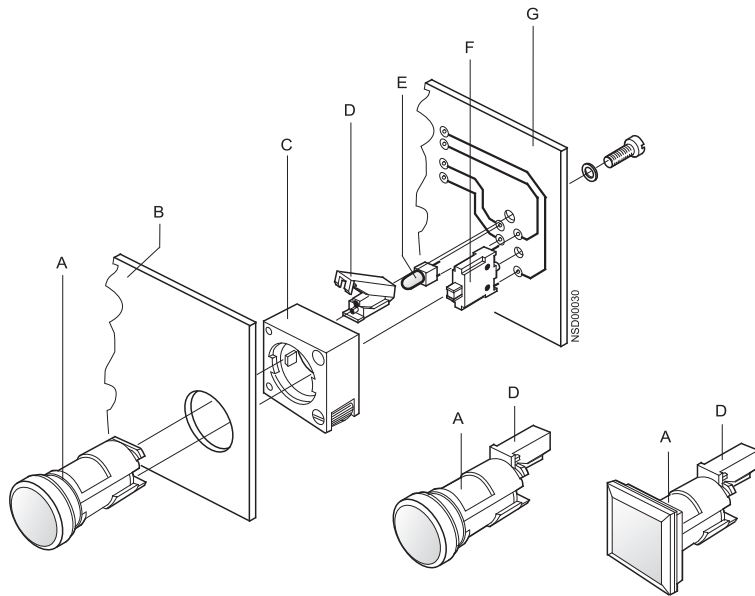
Introduction

Design



Front plate mounting

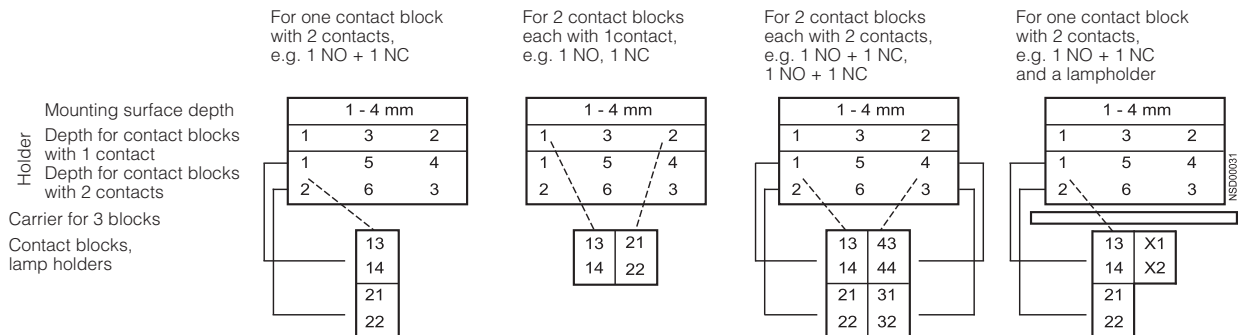
- A Operator
- B Mounting surface 1-6 mm
- C Gear holder
- D Contact block
- E Lampholder
- F Mounting adapter



Used on printed-circuit-boards

- A Operator
- B Mounting surface 1-6 mm
- C Gear holder
- D Holder for printed-circuit-board
- E Lampholder
- F Contact block
- G PCB

Contact assignment



Technical specifications

Data acc. to IEC/EN 60947-5-1, IEC/EN 60947-5-5		
Rated insulation voltage U_i For pollution severity according to IEC 60947-1	Class 3	
• Components with screw connection and spring-loaded terminals	400 V	
• Components with solder pins	250 V	
Rated impulse withstand voltage U_{imp}	6 kV	
• Screw connection, spring-loaded terminals	4 kV	
• Soldered connection		
Conventional free-air thermal current I_{th}	10 A	
Rated operating current I_e at rated operating voltage U_e		
• Alternating current 50/60 Hz, AC-12 - Screw connection and spring-loaded terminals / solder pins	At U_e	I_e
	24 V	10 A / 10 A
	48 V	10 A / 10 A
	110 V	10 A / 10 A
	230 V	10 A / 10 A
	400 V	10 A / –
• Alternating current 50/60 Hz, AC-15 - Screw connection and spring-loaded terminals / solder pins	At U_e	I_e
	24 V	6 A / 4 A
	48 V	6 A / 4 A
	110 V	6 A / 4 A
	230 V	6 A / 4 A
	400 V	3 A / –
• Direct current DC-12 - Screw connection and spring-loaded terminals and solder pins	At U_e	I_e
	24 V	10 A
	48 V	5 A
	110 V	2.5 A
	230 V	1 A
• Direct current DC-13 - Screw connection and spring-loaded terminals and solder pins	At U_e	I_e
	24 V	3 A
	48 V	1.5 A
	110 V	0.7 A
	230 V	0.3 A
Contact stability		
Test voltage/test current	5 V/1 mA	
Short-circuit protection completely weld-free according to IEC 60947-5-1		
• DIAZED fuse links, operational class gL/gG	10 A TDz, 16 A Dz	
• Miniature circuit-breaker with C characteristic according to IEC 60898 (VDE 0641)	10 A	
Mechanical endurance		
• Pushbuttons and switch blocks	10 × 10 ⁶ operating cycles	
• Actuators, rotary or maintained contact	4 × 10 ⁵ operating cycles	
• Illuminated pushbuttons	3 × 10 ⁶ operating cycles	
Electrical endurance		
• For operational class AC-15 with 3RT10 15 to 3RT10 26 contactors	10 × 10 ⁶ operating cycles	
• With operational class DC-12, DC-13	The endurance life of the contacts is not only dependent on the breaking current but also on the voltage, the inductivity of the current circuit and the switching speed.	
Operating frequency	1000 make-break operations per hour	
Climatic withstand capability acc. to DIN 50017	Climate-proof KTW24; suitable for marine applications	
Ambient temperature		
• During operation, non-illuminated devices and complete with LED	–25 to +70 °C	
• During operation, devices with incandescent lamp	–25 to +60 °C	
• During storage, transport	–40 to +80 °C	
Degree of protection acc. to IEC 60529 (VDE 0470 Part 1) and NEMA Standards		
• Connection of switch blocks and lampholders behind the front panel	IP20	
• Contact chambers of the switch blocks behind the front panel	IP40	
• Plastic actuators and indicators	IP66; IP 67 with protective caps; NEMA Type 1, 3, 4, 4X, and 12	
• Plastic on-off pushbuttons	IP65; NEMA Type 1, 3, 4, 4X, and 12	
• Metal actuators and indicators	IP67; NEMA Type 1, 3, 4, 4X, and 12	
• Molded-plastic enclosure	IP65; NEMA Type 1, 3, 4, 4X, and 12	
• Metal enclosure	IP67; NEMA Type 1, 3, 4, 4X, and 12	
Lampholders		
• Screw connection, spring-loaded terminals	For lamps with BA 9s base; incandescent, glow and LED lamps	
• Soldered connection	For lamps with wedge base W2 × 4.6 d; glow and LED lamps	

Pushbutton Units and Indicator Lights

SIRIUS 3SB3

Technical specifications


Data acc. to IEC/EN 60947-5-1, IEC/EN 60947-5-5	
Conductor cross-sections	
<ul style="list-style-type: none"> • Screw connection <ul style="list-style-type: none"> - Finely stranded, with end sleeves to DIN 46228 - Solid - Solid with end sleeves to DIN 46228 - Solid or stranded • Spring-loaded terminal <ul style="list-style-type: none"> - Solid or stranded, without end sleeves - Finely stranded, with end sleeves to DIN 46228 - Solid or stranded • Soldered connection 	<ul style="list-style-type: none"> 2 × (0.5 ... 1.5) mm² 2 × (1 ... 2.5) mm² 2 × (0.5 ... 0.75) mm² 2 × AWG 18 ... 14 2 × (0.25 ... 1.5) mm² 2 × (0.25 ... 0.75) mm² 2 × AWG 24 ... 16 Solder pins 0.8 mm × 0.8 mm
Tightening torque	
<ul style="list-style-type: none"> • Screw on holder • Terminal screws 	<ul style="list-style-type: none"> max. 1 Nm 0.8 Nm
Terminal designations to EN 50013	Digit on the holder, function digit on the switch block
Device identification	With snap-on label
Safety measures	
<ul style="list-style-type: none"> • Plastic 	<p>Safety requirements are met automatically when the actuators and lens assemblies are mounted on metal front plates and enclosures.</p> <p>When mounted in insulated enclosures, the "protective insulation" safety requirements are met.</p> <p>Grounding is necessary for operation on protective extra-low voltage.</p>
<ul style="list-style-type: none"> • Metal version 	Grounding is necessary for operation on protective extra-low voltage.
Touch protection (screw-type, spring-loaded terminals)	Finger-safe to VDE 0660, Part 514 and BGV A2
Shock resistance according to IEC 60068, Part 2-27	
For shock duration of	11 ms
For shock type	Half-sine
<ul style="list-style-type: none"> • Devices without incandescent lamp • Devices with incandescent lamp 	<ul style="list-style-type: none"> ≤ 50 g ≤ 30 g
Vibration resistance according to IEC 60068, Part 2-6	
For frequency of	20 ... 200 Hz
<ul style="list-style-type: none"> • Acceleration 	5 g
Data acc. to UL and CSA	
Rated voltage	
<ul style="list-style-type: none"> • Switch blocks • Lampholders <ul style="list-style-type: none"> - With lamp with BA 9s base - With lamp with wedge base - With integrated LED 	<ul style="list-style-type: none"> AC 300 V AC 125 V; 2.5 W AC 60 V; 1 W AC/DC 24 V, AC 110 V, AC 230 V
Continuous current	10 A
Switching capacity	A 300; R 300; A 600 same polarity

Pushbutton Units and Indicator Lights

SIRIUS Metallic 3SB3, ○ Round Design, 22 mm

Complete units

Selection and ordering data

Version	Color of operator	Contacts	Order No.	List Price \$	Weight approx.	Packs
				1 unit	kg	Unit
Pushbutton unit with flat button 	Pushbutton unit with flat button¹⁾		3SB36 02-0AA11 3SB36 03-0AA11 3SB36 03-0AA21 3SB36 02-0AA31		0.072	1
	black	1 NO	3SB36 02-0AA41			
	black	1 NC	3SB36 02-0AA51			
	red	1 NC	3SB36 02-0AA61			
	yellow	1 NO				
	green	1 NO				
	blue	1 NO				
	white	1 NO				
	black	1 NO + 1 NC	3SB36 01-0AA11	0.081	1	
	red	1 NO + 1 NC	3SB36 01-0AA21			
	yellow	1 NO + 1 NC	3SB36 01-0AA31			
	green	1 NO + 1 NC	3SB36 01-0AA41			
	blue	1 NO + 1 NC	3SB36 01-0AA51			
	white	1 NO + 1 NC	3SB36 01-0AA61			
Pushbutton unit with extended button		black 1 NO black 1 NC red 1 NC yellow 1 NO blue 1 NO white 1 NO	3SB36 02-0BA11 3SB36 03-0BA11 3SB36 03-0BA21 3SB36 02-0BA31 3SB36 02-0BA51 3SB36 02-0BA61	0.072	1	
black	1 NO + 1 NC	3SB36 01-0BA11				
red	1 NO + 1 NC	3SB36 01-0BA21	0.081	1		
yellow	1 NO + 1 NC	3SB36 01-0BA31				
green	1 NO + 1 NC	3SB36 01-0BA41				
blue	1 NO + 1 NC	3SB36 01-0BA51				
white	1 NO + 1 NC	3SB36 01-0BA61				

1) For assemblies with spring loaded contact blocks add suffix -OCC0.

Pushbutton Units and Indicator Lights

SIRIUS Metallic 3SB3, ○ Round Design, 22 mm

Complete units

Selection and ordering data

Illuminated pushbutton unit with flat button



Version	Color of operator	Contacts	Order No.	List Price \$	Weight approx.	Packs	
				1 unit	kg	Unit	
Illuminated pushbutton units with flat button³⁾	with integrated LED 24 V AC/DC Momentary ¹⁾²⁾		red yellow green blue white clear	1 NC 1 NO 1 NO 1 NO 1 NO 1 NO	3SB36 46-0AA21 3SB36 45-0AA31 3SB36 45-0AA41 3SB36 45-0AA51 3SB36 45-0AA61 3SB36 45-0AA71	0.083	1
			red yellow green blue white clear	1 NO + 1 NC 1 NO + 1 NC 1 NO + 1 NC 1 NO + 1 NC 1 NO + 1 NC 1 NO + 1 NC	3SB36 47-0AA21 3SB36 47-0AA31 3SB36 47-0AA41 3SB36 47-0AA51 3SB36 47-0AA61 3SB36 47-0AA71	0.09	
	with integrated LED 110 V AC Momentary		red yellow green blue white clear	1 NC 1 NO 1 NO 1 NO 1 NO 1 NO	3SB36 50-0AA21 3SB36 57-0AA31 3SB36 57-0AA41 3SB36 57-0AA51 3SB36 57-0AA61 3SB36 57-0AA71	0.083	1
			red yellow green blue white clear	1 NO + 1 NC 1 NO + 1 NC 1 NO + 1 NC 1 NO + 1 NC 1 NO + 1 NC 1 NO + 1 NC	3SB36 51-0AA21 3SB36 51-0AA31 3SB36 51-0AA41 3SB36 51-0AA51 3SB36 51-0AA61 3SB36 51-0AA71	0.09	
	with integrated LED 230 V AC Momentary ¹⁾		red yellow green blue white clear	1 NC 1 NO 1 NO 1 NO 1 NO 1 NO	3SB36 54-0AA21 3SB36 53-0AA31 3SB36 53-0AA41 3SB36 53-0AA51 3SB36 53-0AA61 3SB36 53-0AA71	0.083	1
			red yellow green blue white clear	1 NO + 1 NC 1 NO + 1 NC 1 NO + 1 NC 1 NO + 1 NC 1 NO + 1 NC 1 NO + 1 NC	3SB36 55-0AA21 3SB36 55-0AA31 3SB36 55-0AA41 3SB36 55-0AA51 3SB36 55-0AA61 3SB36 55-0AA71	0.09	
	with BA 9s lampholder, without lamp, including holder for 3 elements ¹⁾		red amber yellow green blue white clear	1 NC 1 NO 1 NO 1 NO 1 NO 1 NO 1 NO	3SB36 07-0AA21 3SB36 06-0AA01 3SB36 06-0AA31 3SB36 06-0AA41 3SB36 06-0AA51 3SB36 06-0AA61 3SB36 06-0AA71	0.083	1
			red amber yellow green blue white clear	1 NO + 1 NC 1 NO + 1 NC 1 NO + 1 NC 1 NO + 1 NC 1 NO + 1 NC 1 NO + 1 NC 1 NO + 1 NC	3SB36 05-0AA21 3SB36 05-0AA01 3SB36 05-0AA31 3SB36 05-0AA41 3SB36 05-0AA51 3SB36 05-0AA61 3SB36 05-0AA71	0.09	

1) For assemblies with spring loaded contact blocks add suffix -0CC0.




2) For assemblies with solvent-resistant caps, add suffix -0PA0.

3) For all colors except white, inscription by inserting a label is possible.

Pushbuttons and Indicator Lights

SIRIUS Metallic 3SB3, ○ Round Design, 22 mm

Complete units

Version	Color of operator	Contacts for front plate mounting	Order No.	List Price \$ 1 unit	Weight approx. kg	Packs Unit
 <p>Mushroom push-pull button</p>	red	1 NC 1 NO + 1 NC	3SB36 03-1CA21		0.100	1
			3SB36 01-1CA21			
EMERGENCY-STOP control devices according to EN 418 with yellow name plate, Ø 80 mm, labeled. Can also be used with 3TK28 contactor safety relays (see Section 13)						
 <p>EMERGENCY-STOP mushroom pushbutton with rotary unlocking</p>	red	1 NC 1 NO + 1 NC	→ 3SB36 03-1HR20		0.131	1
			→ 3SB36 01-1HR20			
 <p>EMERGENCY-STOP mushroom pushbutton with pull-to-unlatch mechanism</p>	red	1 NC 1 NO + 1 NC	→ 3SB36 03-1TR20		0.131	1
			→ 3SB36 01-1TR20			

→ Positive opening according to IEC 60947-5-1, Appendix K.

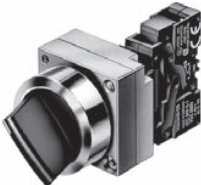

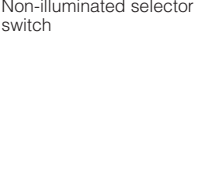



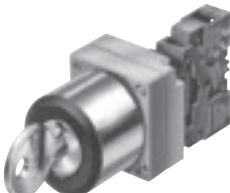

1) For assemblies with spring loaded contact blocks add suffix -OCC0.


* This quantity or a multiple thereof can be ordered

Pushbuttons and Indicator Lights

SIRIUS Metallic 3SB3, ○ Round Design, 22 mm

Complete units

Version	Color of operator	Contacts for front plate mounting	Order No.	List Price \$ 1 unit	Weight approx. kg	Packs Unit
 <p>Non-illuminated selector switch</p>	Selector switch, 2 switch positions switching sequence O-I 50° operating angle, maintained 	1 NO 1 NO + 1 NC	3SB36 02-2KA11 3SB36 01-2KA11	0.095 0.102	1	
	black, standard version ¹⁾	1 NO 1 NO + 1 NC	3SB36 02-2PA11 3SB36 01-2PA11	0.111 0.119	1	
 <p>Non-illuminated selector switch</p>	Selector switch, 3 switch positions switching sequence I-O-II 2 × 50° operating angle, maintained 	1 NO, 1 NO 1 NO + 1 NC, 1 NO + 1 NC	3SB36 10-2DA11 3SB36 08-2DA11	0.105 0.117	1	
	black, heavy duty version	1 NO, 1 NO 1 NO + 1 NC, 1 NO + 1 NC	3SB36 10-2SA11 3SB36 08-2SA11	0.121 0.134	1	
 <p>Non-illuminated selector switch</p>	momentary-contact type 	1 NO, 1 NO 1 NO + 1 NC, 1 NO + 1 NC	3SB36 10-2EA11 3SB36 08-2EA11	0.103 0.119	1	
	black, standard version ¹⁾	1 NO, 1 NO 1 NO + 1 NC, 1 NO + 1 NC	3SB36 10-2TA11 3SB36 08-2TA11	0.122 0.135	1	
 <p>RONIS key-operated switch</p>	Key-operated switch RONIS, flat, 2 switch positions ¹⁾ , key can be removed in any position switching sequence O-I, 50° operating angle, maintained 	SB 30 1 NO 1 NO + 1 NC	3SB36 02-4AD11 3SB36 01-4AD11	0.119 0.124	1	

Version	Color of lens	Lamp voltage V	Order No.	List Price \$ 1 unit	Weight approx. kg	Packs Unit	
 <p>Indicator light</p>	Indicator light with lens with concentric rings ¹⁾ , with integrated LED	24 V AC/DC	3SB36 44-6BA20 3SB36 44-6BA30 3SB36 44-6BA40 3SB36 44-6BA50 3SB36 44-6BA60 3SB36 44-6BA70 3SB36 44-6BA00		0.080	1	
	with integrated LED	110 V AC	3SB36 48-6BA20 3SB36 48-6BA30 3SB36 48-6BA40 3SB36 48-6BA50 3SB36 48-6BA60 3SB36 48-6BA70 3SB36 48-6BA00		0.081	1	
	with integrated LED	230 V AC	3SB36 52-6BA20 3SB36 52-6BA30 3SB36 52-6BA40 3SB36 52-6BA50 3SB36 52-6BA60 3SB36 52-6BA70		0.081	1	
	with lampholder BA 9s, (without lamp)	red yellow green blue white clear		3SB36 04-6BA20 3SB36 04-6BA30 3SB36 04-6BA40 3SB36 04-6BA50 3SB36 04-6BA60 3SB36 04-6BA70		0.079	1

1) For assemblies with spring loaded contact blocks add suffix -0CC0.







* This quantity or a multiple thereof can be ordered

Pushbutton Units and Indicator Lights

SIRIUS Metallic 3SB3, ○ Round Design, 22 mm

Pushbuttons

Selection and ordering data

Version	Color of operator	Inscription	Order No.	List Price \$	Weight approx.	Packs	
				1 unit	kg	Unit	
 <p>Pushbutton with flat button</p>	including holder¹⁾						
	Pushbutton with flat button Momentary	black red yellow green blue white grey clear ²⁾		3SB35 00-0AA11 3SB35 00-0AA21 3SB35 00-0AA31 3SB35 00-0AA41 3SB35 00-0AA51 3SB35 00-0AA61 3SB35 00-0AB51 3SB35 00-0AA71		0.062	1
		black black	Up Down	3SB35 00-0AA11-ZED 3SB35 00-0AA11-ZEE			
		black black	Forward Reverse	3SB35 00-0AA11-ZEF 3SB35 00-0AA11-ZEG			
		green green	On Start	3SB35 00-0AA41-ZEB 3SB35 00-0AA41-ZEL			
		green red white black blue	I O I O R	3SB35 00-0AA81 3SB35 00-0AB01 3SB35 00-0AB11 3SB35 00-0AB21 3SB35 00-0AC81		0.074	1
	 <p>Pushbutton with raised button</p>	Pushbutton with raised button Momentary	black red yellow green blue white red red	3SB35 00-0BA11 3SB35 00-0BA21 3SB35 00-0BA31 3SB35 00-0BA41 3SB35 00-0BA51 3SB35 00-0BA61		0.063	1
			Off Stop				
	 <p>Pushbutton with raised front ring</p>	Pushbutton with raised front-ring (guarded) (Height 15.5 mm), Momentary	black red yellow green blue white	3SB35 00-0AA12 3SB35 00-0AA22 3SB35 00-0AA32 3SB35 00-0AA42 3SB35 00-0AA52 3SB35 00-0AA62		0.067	1
 <p>Illuminated pushbutton with flat button</p>	Illuminated pushbutton with flat button incl. holder for 3 elements, Momentary	amber ²⁾ red ²⁾³⁾ yellow ²⁾³⁾ green ²⁾³⁾ blue ²⁾³⁾ white ³⁾ clear ³⁾	3SB35 01-0AA01 3SB35 01-0AA21 3SB35 01-0AA31 3SB35 01-0AA41 3SB35 01-0AA51 3SB35 01-0AA61 3SB35 01-0AA71		0.064	1	
	 <p>Illuminated pushbutton with raised button</p>	Illuminated pushbutton with raised button incl. holder for 3 elements, Momentary	amber red yellow green blue white clear	3SB35 01-0BA01 3SB35 01-0BA21 3SB35 01-0BA31 3SB35 01-0BA41 3SB35 01-0BA51 3SB35 01-0BA61 3SB35 01-0BA71		0.065	1
 <p>Pushbutton switch with flat button</p>	Pushbutton switch with flat button unlatching by pressing again Maintained	black red yellow green blue white grey	3SB35 00-0DA11 3SB35 00-0DA21 3SB35 00-0DA31 3SB35 00-0DA41 3SB35 00-0DA51 3SB35 00-0DA61 3SB35 00-0DB51		0.062	1	
	Illuminated pushbutton switch with flat button incl. holder for 3 elements unlatching by pressing again Maintained	amber ²⁾ red ²⁾ yellow ²⁾ green ²⁾ blue ²⁾ white clear ²⁾	3SB35 01-0DA01 3SB35 01-0DA21 3SB35 01-0DA31 3SB35 01-0DA41 3SB35 01-0DA51 3SB35 01-0DA61 3SB35 01-0DA71		0.062	1	

For contact blocks and lamp holders, see pages 10/60-10/63.

For insert labels and back plates, see pages 10/66-10/69.

For other accessories, see pages 10/70-10/74.

1) Also available without holder by adding suffix -ZB01.

2) Inscription by inserting a label is possible.









3) For assemblies with solvent-resistant caps, add suffix -OPA0.

Pushbutton Units and Indicator Lights

SIRIUS Metallic 3SB3, ○ Round Design, 22 mm

Pushbuttons

Selection and ordering data

Version	Color of operator	Order No.	List Price \$ 1 unit	Weight approx. kg	Packs Unit
<i>including holder ¹⁾</i>					
Mushroom pushbutton, Ø 30 mm 	Mushroom pushbutton, Ø 30 mm Momentary	black red yellow green	3SB35 00-1DA11 3SB35 00-1DA21 3SB35 00-1DA31 3SB35 00-1DA41	0.075	1
Mushroom pushbutton, Ø 40 mm 	Mushroom pushbutton, Ø 40 mm Momentary	black red yellow green	3SB35 00-1GA11 3SB35 00-1GA21 3SB35 00-1GA31 3SB35 00-1GA41	0.080	1
Mushroom pushbutton, Ø 60 mm 	Mushroom pushbutton, Ø 60 mm Momentary	black red yellow green	3SB35 00-1QA11 3SB35 00-1QA21 3SB35 00-1QA31 3SB35 00-1QA41	0.079	1
Illuminated mushroom pushbutton, Ø 30 mm 	Illuminated mushroom pushbutton, Ø 30 mm Momentary incl. holder for 3 elements	amber yellow green white	3SB35 01-1DA01 3SB35 01-1DA31 3SB35 01-1DA41 3SB35 01-1DA61	0.077	1
Illuminated mushroom pushbutton, Ø 40 mm 	Illuminated mushroom pushbutton, Ø 40 mm Momentary incl. holder for 3 elements	amber yellow green white clear	3SB35 01-1GA01 3SB35 01-1GA31 3SB35 01-1GA41 3SB35 01-1GA61 3SB35 01-1GA71	0.082	1
Illuminated mushroom pushbutton, Ø 60 mm 	Illuminated mushroom pushbutton, Ø 60 mm Momentary incl. holder for 3 elements	amber yellow green white	3SB35 01-1QA01 3SB35 01-1QA31 3SB35 01-1QA41 3SB35 01-1QA61	0.081	1
Push-pull button, maintained, Ø 30 mm 	Push-pull button, maintained, Ø 30 mm unlatching by pulling	black red	3SB35 00-1EA11 3SB35 00-1EA21	0.076	1
Push-pull button, maintained, Ø 40 mm 	Push-pull button, maintained, Ø 40 mm unlatching by pulling	black red	3SB35 00-1CA11 3SB35 00-1CA21	0.081	1
Push-pull button, maintained, Ø 60 mm 	Push-pull button, maintained, Ø 60 mm unlatching by pulling	black red	3SB35 00-1RA11 3SB35 00-1RA21	0.080	1
Push-pull button, Ø 30 mm, can be illuminated 	Push-pull button, maintained, Ø 30 mm can be illuminated incl. holder for 3 elements, unlatching by pulling	amber red yellow green blue clear	3SB35 01-1EA01 3SB35 01-1EA21 3SB35 01-1EA31 3SB35 01-1EA41 3SB35 01-1EA51 3SB35 01-1EA71	0.078	1
Push-pull button, Ø 40 mm, can be illuminated 	Push-pull button, maintained, Ø 40 mm can be illuminated incl. holder for 3 elements, unlatching by pulling	amber red yellow green blue clear	3SB35 01-1CA01 3SB35 01-1CA21 3SB35 01-1CA31 3SB35 01-1CA41 3SB35 01-1CA51 3SB35 01-1CA71	0.083	1
Push-pull button, Ø 60 mm, can be illuminated 	Push-pull button, maintained, Ø 60 mm can be illuminated incl. holder for 3 elements, unlatching by pulling	amber red yellow green blue clear	3SB35 01-1RA01 3SB35 01-1RA21 3SB35 01-1RA31 3SB35 01-1RA41 3SB35 01-1RA51 3SB35 01-1RA71	0.082	1

For contact blocks and lamp holders, see pages 10/60-10/63.

For insert labels and back plates, see pages 10/66-10/69.

For other accessories, see pages 10/70-10/74.

1) Also available without holder by adding suffix -ZB01.

2) Maximum permissible fittings: 3 single pole or 2 double-pole contact elements. When using the 3SB39 01-0AB holder, the central command position must not be empty.

Pushbutton Units and Indicator Lights

SIRIUS Metallic 3SB3, ○ Round Design, 22 mm

EMERGENCY-STOP mushroom pushbuttons

Selection and ordering data

Version	Color of operator/ key removable in position	Order No.	List Price \$ 1 unit	Weight approx. kg	Packs Unit
	red	3SB3500-1FA20		0.105	1
Mushroom pushbutton, Ø 32mm, with positive latching function Unlocking by turning the knob to the left					
	red	3SB3500-1AA20		0.105	1
Mushroom pushbutton, Ø 60mm, with positive latching function Unlocking by turning the knob to the left					
EMERGENCY-STOP command devices according to EN 418, including holder¹⁾²⁾, can also be used with 3TK28 contactor safety relays (see Section 13)					
	red				
Mushroom pushbutton, Ø 40 mm, with positive latching function acc. to EN418 unlocking by turning the knob to the left - standard - with mechanical switching position indication		3SB35 00-1HA20 3SB35 00-1HA26		0.105	5
	red ON/OFF				
Mushroom pushbutton, Ø 40 mm, with positive latching function acc. to EN418 pull-to-unlatch mechanism - standard		3SB35 00-1TA20		0.106	5
	red ON/OFF				
Mushroom pushbutton, Ø 40 mm, with positive latching function, with RONIS lock Lock No. SB30, supplied with 2 keys, unlocking only possible using key		3SB35 00-1BA20		0.110	1
	red ON/OFF				
Mushroom pushbutton, Ø 40 mm, with positive latching function, with CES lock Lock No. SSG 10, supplied with 2 keys, unlocking only possible using key		3SB35 00-1KA20		0.190	1
	red ON/OFF				
Mushroom pushbutton, Ø 40 mm, with positive latching function, with IKON lock Lock No. 360012K1, supplied with 2 keys, unlocking only possible using key		3SB35 00-1UA20		0.190	1
	red ON/OFF				
Mushroom pushbutton, Ø 40 mm, with positive latching function, with BKS lock Lock No. S1, supplied with 2 keys, unlocking only possible using key		3SB35 00-1LA20		0.190	1
	red ON/OFF				
Mushroom pushbutton, Ø 40 mm, with positive latching function, with O.M.R. lock Lock No. 73037, supplied with 2 keys, unlocking only possible using key		3SB35 00-1MA20		0.190	1
Wobble stick		3SB35 00-7CB61		0.230	

For contact blocks and lamp holders, see pages 10/60-10/63.
For insert labels and back plates, see pages 10/66-10/69.

For other accessories, see pages 10/70-10/74.


- 1) The yellow backing plate must be ordered separately; see page 10/71.
- 2) Also available without holder by adding suffix -ZB01.

Pushbutton Units and Indicator Lights

SIRIUS Metallic 3SB3, ○ Round Design, 22 mm

Indicator lights

Selection and ordering data

Version	Color of lens	Order No.	List Price \$	Weight approx.	Packs
			1 unit	kg	Unit
Indicator light, smooth 	<i>including holder¹⁾</i>				
	Indicator light with concentric rings²⁾	amber	3SB35 01-6BA00	0.055	1
		red	3SB35 01-6BA20		
		yellow	3SB35 01-6BA30		
		green	3SB35 01-6BA40		
		blue	3SB35 01-6BA50		
		white	3SB35 01-6BA60		
		clear	3SB35 01-6BA70		
	Indicator light, smooth²⁾	amber	3SB35 01-6AA00	0.055	1
		red	3SB35 01-6AA20		
		yellow	3SB35 01-6AA30		
		green	3SB35 01-6AA40		
		blue	3SB35 01-6AA50		
		white	3SB35 01-6AA60		
	clear	3SB35 01-6AA70			

For contact blocks and lamp holders, see pages 10/60-10/63.

For insert labels and back plates, see pages 10/66-10/69.

For other accessories, see pages 10/70-10/74.

1) Also available without holder by adding suffix -ZB01.



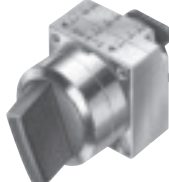



2) Inscription by inserting a label is not possible.

Pushbutton Units and Indicator Lights

SIRIUS Metallic 3SB3, ○ Round Design, 22 mm

Selector switches

Selection and ordering data

Version	Color of operator	Order No.	List Price \$ 1 unit	Weight approx. kg	Packs Unit
including holder					
Selector switch, 2 switching positions, standard version 	 Switching sequence O-I, maintained, 90° operating angle	Selector switches with 2 switching positions¹⁾ non-illuminated, standard version	black ²⁾ red ²⁾ green ²⁾ white	3SB35 00-2HA11 3SB35 00-2HA21 3SB35 00-2HA41 3SB35 00-2HA61	0.071 1
		illuminated, standard version incl. holder for 3 elements	amber red yellow green blue clear	3SB35 01-2HA01 3SB35 01-2HA21 3SB35 01-2HA31 3SB35 01-2HA41 3SB35 01-2HA51 3SB35 01-2HA71	0.100 1
Selector switch, 2 switching positions, heavy-duty version 	 Switching sequence O-I, maintained, 50° operating angle	non-illuminated, short handle standard version	black ²⁾ red ²⁾ green ²⁾ white	3SB35 00-2KA11 3SB35 00-2KA21 3SB35 00-2KA41 3SB35 00-2KA61	0.080 1
		non-illuminated, short handle heavy-duty version	black red green white	3SB35 00-2PA11 3SB35 00-2PA21 3SB35 00-2PA41 3SB35 00-2PA61	0.081 1
Selector switch, 2 switching positions, long handle 	 Switching sequence O-I, momentary, (spring return from right), 50° operating angle	illuminated, short handle standard version incl. holder for 3 elements	amber red ²⁾ yellow green ²⁾ blue ²⁾ clear ²⁾	3SB35 01-2KA01 3SB35 01-2KA21 3SB35 01-2KA31 3SB35 01-2KA41 3SB35 01-2KA51 3SB35 01-2KA71	0.100 1
		illuminated, short handle heavy-duty version incl. holder for 3 elements	amber red yellow green blue clear	3SB35 01-2PA01 3SB35 01-2PA21 3SB35 01-2PA31 3SB35 01-2PA41 3SB35 01-2PA51 3SB35 01-2PA71	0.081 1
		non-illuminated, long handle heavy-duty version	black red green white	3SB35 00-3PA11 3SB35 00-3PA21 3SB35 00-3PA41 3SB35 00-3PA61	0.081 1
		illuminated, long handle heavy-duty version incl. holder for 3 elements	amber red yellow green blue clear	3SB35 01-3PA01 3SB35 01-3PA21 3SB35 01-3PA31 3SB35 01-3PA41 3SB35 01-3PA51 3SB35 01-3PA71	0.081 1
		non-illuminated, short handle standard version	black ²⁾ red ²⁾ green ²⁾ white	3SB35 00-2LA11 3SB35 00-2LA21 3SB35 00-2LA41 3SB35 00-2LA61	0.080 1
		non-illuminated, short handle heavy-duty version	black red green white	3SB35 00-2QA11 3SB35 00-2QA21 3SB35 00-2QA41 3SB35 00-2QA61	0.081 1
		illuminated, short handle standard version incl. holder for 3 elements	amber red ²⁾ yellow green ²⁾ blue ²⁾ clear ²⁾	3SB35 01-2LA01 3SB35 01-2LA21 3SB35 01-2LA31 3SB35 01-2LA41 3SB35 01-2LA51 3SB35 01-2LA71	0.081 1
		illuminated, short handle heavy-duty version incl. holder for 3 elements	amber red yellow green blue clear	3SB35 01-2QA01 3SB35 01-2QA21 3SB35 01-2QA31 3SB35 01-2QA41 3SB35 01-2QA51 3SB35 01-2QA71	0.081 1
		non-illuminated, long handle heavy-duty version	black red green white	3SB35 00-3QA11 3SB35 00-3QA21 3SB35 00-3QA41 3SB35 00-3QA61	0.081 1
		illuminated, long handle heavy-duty version incl. holder for 3 elements	amber red yellow green blue clear	3SB35 01-3QA01 3SB35 01-3QA21 3SB35 01-3QA31 3SB35 01-3QA41 3SB35 01-3QA51 3SB35 01-3QA71	0.081 1

For contact block position chart, see page 10/65.
For contact blocks and lamp holders, see pages 10/60-10/63.

For insert labels and back plates, see pages 10/66-10/69.
For other accessories, see pages 10/70-10/74.





- 1) Also available without holder by adding suffix -ZB01.
- 2) For assemblies with solvent-resistant caps, add suffix -OPA0.

Pushbutton Units and Indicator Lights

SIRIUS Metallic 3SB3, ○ Round Design, 22 mm

Selector switches

Selection and ordering data

Version	Color of operator	Order No.	List Price \$	Weight approx.	Packs
			1 unit	kg	Unit
<i>including holder</i>					
Selector switch, 3 switching positions, standard version 	 Switching sequence I-O-II, maintained, 2 × 50° operating angle	non-illuminated, short handle standard version	black ²⁾ red ²⁾ green ²⁾ white	3SB35 00-2DA11 3SB35 00-2DA21 3SB35 35-2DA41 3SB35 00-2DA61	0.081 1
		non-illuminated, short handle heavy-duty version	black red green white	3SB35 00-2SA11 3SB35 00-2SA21 3SB35 00-2SA41 3SB35 00-2SA61	0.081 1
Selector switch, 3 switching positions, heavy-duty version 	 Switching sequence I-O-II, momentary, (spring return from left and right), 2 × 50° operating angle	illuminated, short handle standard version incl. holder for 3 elements	amber red ²⁾ yellow green ²⁾ blue ²⁾ clear ²⁾	3SB35 01-2DA01 3SB35 01-2DA21 3SB35 01-2DA31 3SB35 01-2DA41 3SB35 01-2DA51 3SB35 01-2DA71	0.080 1
		illuminated, short handle heavy-duty version incl. holder for 3 elements	amber red yellow green blue clear	3SB35 01-2SA01 3SB35 01-2SA21 3SB35 01-2SA31 3SB35 01-2SA41 3SB35 01-2SA51 3SB35 01-2SA71	0.081 1
		non-illuminated, long handle heavy-duty version	black red green white	3SB35 00-3SA11 3SB35 00-3SA21 3SB35 00-3SA41 3SB35 00-3SA61	0.081 1
		illuminated, long handle heavy-duty version incl. holder for 3 elements	amber red yellow green blue clear	3SB35 01-3SA01 3SB35 01-3SA21 3SB35 01-3SA31 3SB35 01-3SA41 3SB35 01-3SA51 3SB35 01-3SA71	0.081 1
		non-illuminated, short handle standard version	black ²⁾ red ²⁾ green ²⁾ white	3SB35 00-2EA11 3SB35 00-2EA21 3SB35 00-2EA41 3SB35 00-2EA61	0.080 1
		non-illuminated, short handle heavy-duty version	black red green white	3SB35 00-2TA11 3SB35 00-2TA21 3SB35 00-2TA41 3SB35 00-2TA61	0.081 1
		illuminated, short handle standard version incl. holder for 3 elements	amber red ²⁾ yellow green ²⁾ blue ²⁾ clear ²⁾	3SB35 01-2EA01 3SB35 01-2EA21 3SB35 01-2EA31 3SB35 01-2EA41 3SB35 01-2EA51 3SB35 01-2EA71	0.080 1
		illuminated, short handle heavy-duty version incl. holder for 3 elements	amber red yellow green blue clear	3SB35 01-2TA01 3SB35 01-2TA21 3SB35 01-2TA31 3SB35 01-2TA41 3SB35 01-2TA51 3SB35 01-2TA71	0.081 1
		non-illuminated, long handle heavy-duty version	black red green white	3SB35 00-3TA11 3SB35 00-3TA21 3SB35 00-3TA41 3SB35 00-3TA61	0.081 1
		illuminated, long handle heavy-duty version incl. holder for 3 elements	amber red yellow green blue clear	3SB35 01-3TA01 3SB35 01-3TA21 3SB35 01-3TA31 3SB35 01-3TA41 3SB35 01-3TA51 3SB35 01-3TA71	0.081 1

For contact block position chart, see page 10/65.
For contact blocks and lamp holders, see pages 10/60-10/63.

For insert labels and back plates, see pages 10/66-10/69.
For other accessories, see pages 10/70-10/74.



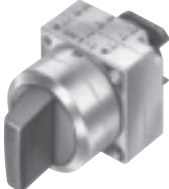

- 1) Also available without holder by adding suffix -ZB01.
- 2) For assemblies with solvent-resistant caps, add suffix -0PA0.

Pushbutton Units and Indicator Lights

SIRIUS Metallic 3SB3, ○ Round Design, 22 mm

Selector switches

Selection and ordering data

Version	Color of operator	Order No.	List Price \$	Weight approx.	Packs
			1 unit	kg	Unit
<i>including holder ¹⁾</i>					
Selector switches with 3 switching positions					
Selector switch, 3 switching positions, standard version 	 Switching sequence I–O–II, momentary to the right, spring return from the left, 2 × 50° operating angle	non-illuminated, short handle standard version	black red green white	3SB35 00–2GA11 3SB35 00–2GA21 3SB35 00–2GA41 3SB35 00–2GA61	0.080 1
		non-illuminated, short handle heavy-duty version	black red green white	3SB35 00–2VA11 3SB35 00–2VA21 3SB35 00–2VA41 3SB35 00–2VA61	0.081 1
		illuminated, short handle standard version incl. holder for 3 elements	amber red yellow green blue clear	3SB35 01–2GA01 3SB35 01–2GA21 3SB35 01–2GA31 3SB35 01–2GA41 3SB35 01–2GA51 3SB35 01–2GA71	0.080 1
		illuminated, short handle heavy-duty version incl. holder for 3 elements	amber red yellow green blue clear	3SB35 01–2VA01 3SB35 01–2VA21 3SB35 01–2VA31 3SB35 01–2VA41 3SB35 01–2VA51 3SB35 01–2VA71	0.081 1
		non-illuminated, long handle heavy-duty version	black red green white	3SB35 00–3VA11 3SB35 00–3VA21 3SB35 00–3VA41 3SB35 00–3VA61	0.081 1
		illuminated, long handle heavy-duty version incl. holder for 3 elements	amber red yellow green blue clear	3SB35 01–3VA01 3SB35 01–3VA21 3SB35 01–3VA31 3SB35 01–3VA41 3SB35 01–3VA51 3SB35 01–3VA71	0.081 1
Selector switch, 3 switching positions, heavy-duty version 	 Switching sequence I–O–II, momentary to the left, spring return from the right, 2 × 50° operating angle	non-illuminated, short handle standard version	black red green white	3SB35 00–2FA11 3SB35 00–2FA21 3SB35 00–2FA41 3SB35 00–2FA61	0.080 1
		non-illuminated, short handle	black red green white	3SB35 00–2UA11 3SB35 00–2UA21 3SB35 00–2UA41 3SB35 00–2UA61	0.081 1
		illuminated, short handle standard version incl. holder for 3 elements	amber red yellow green blue clear	3SB35 01–2FA01 3SB35 01–2FA21 3SB35 01–2FA31 3SB35 01–2FA41 3SB35 01–2FA51 3SB35 01–2FA71	0.080 1
		illuminated, short handle incl. holder for 3 elements	amber red yellow green blue clear	3SB35 01–2UA01 3SB35 01–2UA21 3SB35 01–2UA31 3SB35 01–2UA41 3SB35 01–2UA51 3SB35 01–2UA71	0.081 1
		non-illuminated, long handle	black red green white	3SB35 00–3UA11 3SB35 00–3UA21 3SB35 00–3UA41 3SB35 00–3UA61	0.081 1
		illuminated, long handle incl. holder for 3 elements	amber red yellow green blue clear	3SB35 01–3UA01 3SB35 01–3UA21 3SB35 01–3UA31 3SB35 01–3UA41 3SB35 01–3UA51 3SB35 01–3UA71	0.081 1

For contact block position chart, see page 10/65.
For contact blocks and lamp holders, see pages 10/60-10/63.

For insert labels and back plates, see pages 10/66-10/69.
For other accessories, see pages 10/70-10/74.



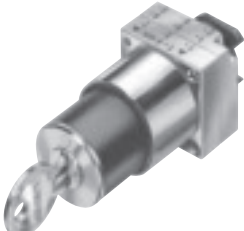
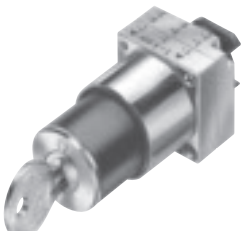

1) Also available without holder by adding suffix -ZB01.

Pushbutton Units and Indicator Lights

SIRIUS Metallic 3SB3, ○ Round Design, 22 mm

Key-operated switches

Selection and ordering data

Version	Type	Lock No./ color	Key remov- able in position	Order No.	List Price \$ 1 unit	Weight approx. kg	Packs Unit
<i>including holder ¹⁾</i>							
RONIS key-operated switch	Key-operated switch with 2 keys, 2 switching positions						
	○	Switching sequence O-I, maintained, 50° operating angle	RONIS SB 30 flat	O+I O I	3SB35 00-4AD11 3SB35 00-4AD01 3SB35 00-4AD21	0.094	1
			CES SSG 10	O+I O I	3SB35 00-4LD11 3SB35 00-4LD01 3SB35 00-4LD21	0.175	1
			LSG 1	O+I O	3SB35 00-4LF01 3SB35 00-4LF11		
CES key-operated switch			IKON 360012 K1	O+I O	3SB35 00-5LD11 3SB35 00-5LD01	0.180	1
			BKS S 1	O+I O I	3SB35 00-5AD11 3SB35 00-5AD01 3SB35 00-5AD21	0.175	1
			O.M.R. ²⁾ 73038 light blue	O+I O I	3SB35 00-3AG11 3SB35 00-3AG01 3SB35 00-3AG21	0.165	1
			73037 red	O+I O I	3SB35 00-3AH11 3SB35 00-3AH01 3SB35 00-3AH21		
IKON key-operated switch			73034 black	O+I O I	3SB35 00-3AJ11 3SB35 00-3AJ01 3SB35 00-3AJ21		
			73033 yellow	O+I O I	3SB35 00-3AK11 3SB35 00-3AK01 3SB35 00-3AK21		
	○	Switching sequence O-I, momentary, (spring return from right), 50° operating angle	RONIS SB 30 flat	O	3SB35 00-4BD01	0.094	1
			CES SSG 10	O	3SB35 00-4MD01	0.175	1
			LSG 1	O	3SB35 00-4MF11		
BKS key-operated switch			IKON 360012 K1	O	3SB35 00-5MD01	0.180	1
			BKS S 1	O	3SB35 00-5BD01	0.175	1
			O.M.R. ²⁾ 73038 light blue	O	3SB35 00-3BG01	0.165	1
			73037 red	O	3SB35 00-3BH01		
			73034 black	O	3SB35 00-3BJ01		
O.M.R. key-operated switch			73033 yellow	O	3SB35 00-3BK01		
							

For special designs, see page 10/59.

For contact block position chart, see page 10/65.
For contact blocks and lamp holders, see pages 10/60-10/63.

For insert labels and back plates, see pages 10/66-10/69.
For other accessories, see pages 10/70-10/74.



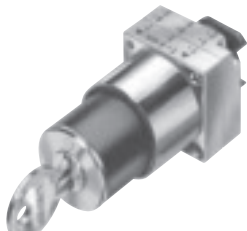


- 1) Also available without holder by adding suffix -ZB01.
- 2) In accordance with FIAT car company standards, can also be used by other users.

Pushbutton Units and Indicator Lights

SIRIUS Metallic 3SB3, ○ Round Design, 22 mm

Key-operated switches

Selection and ordering data

Version	Type	Lock No./color	Key removable in position	Order No.	List Price \$ 1 unit	Weight approx. kg	Packs Unit
<i>including holder ¹⁾</i>							
RONIS key-operated switch	Key-operated switch with 2 keys, 3 switching positions						
	RONIS SB 30 flat		O+I+II O I+II	3SB35 00-4DD11 3SB35 00-4DD01 3SB35 00-4DD41		0.094	1
			I II O+I	3SB35 00-4DD21 3SB35 00-4DD31 3SB35 00-4DD51			
CES key-operated switch	CES SSG 10		O+I+II O I+II	3SB35 00-4PD11 3SB35 00-4PD01 3SB35 00-4PD41		0.175	1
			I II	3SB35 00-4PD21 3SB35 00-4PD31			
	IKON 360012 K1		O+I+II O	3SB35 00-5PD11 3SB35 00-5PD01		0.180	1
	BKS 1 NO		O+I+II O I+II	3SB35 00-5DD11 3SB35 00-5DD01 3SB35 00-5DD41		0.175	1
			I II	3SB35 00-5DD21 3SB35 00-5DD31			
IKON key-operated switch	O.M.R. ²⁾ 73038 light blue		I+O+II O	3SB35 00-3DG11 3SB35 00-3DG01		0.165	1
	73037		I+O+II	3SB35 00-3DH11			
	73034 black		I+O+II O	3SB35 00-3DJ11 3SB35 00-3DJ01			
	RONIS SB 30 flat		O	3SB35 00-4ED01		0.094	1
	ES SSG 10		O	3SB35 00-4QD01		0.175	1
	IKON 360012 K1		O	3SB35 00-5QD01		0.180	1
BKS key-operated switch	BKS S 1		O	3SB35 00-5ED01		0.175	1
	O.M.R. ²⁾ 73034 black		O	3SB35 00-3EJ01		0.165	1
O.M.R. key-operated switch							
							

For special designs, see page 10/59.

For contact block position chart, see page 10/65.
For contact blocks and lamp holders, see pages 10/60-10/63.

For insert labels and back plates, see pages 10/66-10/69.
For other accessories, see pages 10/70-10/74.



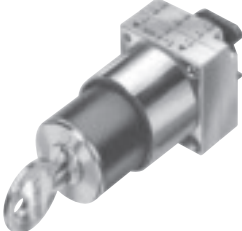
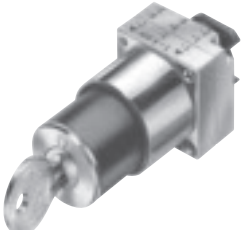
1) Also available without holder by adding suffix -ZB01.
2) In accordance with FIAT car company standards; can also be used by other users.

Pushbutton Units and Indicator Lights

SIRIUS Metallic 3SB3, ○ Round Design, 22 mm

Key-operated switches

Selection and ordering data

Version	Type	Lock No./ color	Key remov- able in position	Order No.	List Price \$ 1 unit	Weight approx. kg	Packs Unit
<i>including holder ¹⁾</i>							
RONIS key-operated switch	Key-operated switch with 2 keys, 3 switching positions						
	Switching sequence I—O—II, momentary to the left, (spring return from the left to center), maintained to the right 2 × 50° operating angle	RONIS SB 30 flat	O+II O II	3SB35 00-4GD61 3SB35 00-4GD01 3SB35 00-4GD31		0.094	1
CES key-operated switch		CES SSG 10	O+II O II	3SB35 00-4SD61 3SB35 00-4SD01 3SB35 00-4SD31		0.175	1
		IKON 360012 K1	O II	3SB35 00-5SD01 3SB35 00-5SD31		0.180	1
		BKS S 1	O+II O II	3SB35 00-5GD61 3SB35 00-5GD01 3SB35 00-5GD31		0.175	1
		O.M.R. 73034 black	II	3SB35 00-3GJ31		0.165	1
		73033 yellow	II	3SB35 00-3GK31			
IKON key-operated switch	Switching sequence I—O—II, maintained to the left, momentary to the right, (spring return from the right), 2 × 50° operating angle	RONIS SB 30 flat	O+I O I	3SB35 00-4FD51 3SB35 00-4FD01 3SB35 00-4FD21		0.094	1
		CES SSG 10	O+I O I	3SB35 00-4RD51 3SB35 00-4RD01 3SB35 00-4RD21		0.175	1
		IKON 360012 K1	O+I	3SB35 00-5RD51		0.180	1
BKS key-operated switch		BKS S 1	O+I O I	3SB35 00-5FD51 3SB35 00-5FD01 3SB35 00-5FD21		0.175	1
							

For special designs, see page 10/59.

For contact block position chart, see page 10/65.
For contact blocks and lamp holders, see pages 10/60-10/63.

For insert labels and back plates, see pages 10/66-10/69.
For other accessories, see pages 10/70-10/74.

1) Also available without holder by adding suffix -ZB01.

Pushbutton Units and Indicator Lights

SIRIUS Plastic 3SB3, ○ Round Design, 22 mm

Complete units

Selection and ordering data



Pushbutton unit with flat button



Illuminated pushbutton unit with flat button

Version	Color of actuator	Contacts for	Order No.	List Price \$ 1 unit	Weight approx. kg	Pack Unit				
Pushbutton unit with flat button¹⁾ momentary	black	1 NO	3SB3202-0AA11		0.04	1				
	black	1 NC	3SB3203-0AA11							
	red	1 NC	3SB3203-0AA21							
	yellow	1 NO	3SB3202-0AA31							
	green	1 NO	3SB3202-0AA41							
	blue	1 NO	3SB3202-0AA51							
	white	1 NO	3SB3202-0AA61							
	black	1 NO + 1 NC	3SB3201-0AA11							
	red	1 NO + 1 NC	3SB3201-0AA21							
	yellow	1 NO + 1 NC	3SB3201-0AA31							
	green	1 NO + 1 NC	3SB3201-0AA41							
	blue	1 NO + 1 NC	3SB3201-0AA51							
	white	1 NO + 1 NC	3SB3201-0AA61							
	Pushbutton unit with extended button momentary	black	1 NO				3SB3202-0BA11		0.05	1
black		1 NC	3SB3203-0BA11							
red		1 NC	3SB3203-0BA21							
yellow		1 NO	3SB3202-0BA31							
blue		1 NO	3SB3202-0BA51							
white		1 NO	3SB3202-0BA61							
black		1 NO + 1 NC	3SB3201-0BA11							
red		1 NO + 1 NC	3SB3201-0BA21							
yellow		1 NO + 1 NC	3SB3201-0BA31							
blue		1 NO + 1 NC	3SB3201-0BA51							
white		1 NO + 1 NC	3SB3201-0BA61							
Illuminated pushbutton with flat button²⁾ momentary with integrated LED 24 V AC/DC ¹⁾		red	1 NC	3SB3246-0AA21		0.04	1			
		yellow	1 NO	3SB3245-0AA31						
		green	1 NO	3SB3245-0AA41						
	blue	1 NO	3SB3245-0AA51							
	white	1 NO	3SB3245-0AA61							
	clear	1 NO	3SB3245-0AA71							
	red	1 NO + 1 NC	3SB3247-0AA21							
	yellow	1 NO + 1 NC	3SB3247-0AA31							
	green	1 NO + 1 NC	3SB3247-0AA41							
	blue	1 NO + 1 NC	3SB3247-0AA51							
	white	1 NO + 1 NC	3SB3247-0AA61							
	clear	1 NO + 1 NC	3SB3247-0AA71							
	with integrated LED 110 V AC/DC	red	1 NC	3SB3250-0AA21					0.04	1
		yellow	1 NO	3SB3257-0AA31						
green		1 NO	3SB3257-0AA41							
blue		1 NO	3SB3257-0AA51							
white		1 NO	3SB3257-0AA61							
clear		1 NO	3SB3257-0AA71							
red		1 NO + 1 NC	3SB3251-0AA21							
yellow		1 NO + 1 NC	3SB3251-0AA31							
green		1 NO + 1 NC	3SB3251-0AA41							
blue		1 NO + 1 NC	3SB3251-0AA51							
white	1 NO + 1 NC	3SB3251-0AA61								
clear	1 NO + 1 NC	3SB3251-0AA71								
with integrated LED 230 V AC/DC ¹⁾	red	1 NC	3SB3254-0AA21		0.04	1				
	yellow	1 NO	3SB3253-0AA31							
	green	1 NO	3SB3253-0AA41							
	blue	1 NO	3SB3253-0AA51							
	white	1 NO	3SB3253-0AA61							
	clear	1 NO	3SB3253-0AA71							
	red	1 NO + 1 NC	3SB3255-0AA21							
	yellow	1 NO + 1 NC	3SB3255-0AA31							
	green	1 NO + 1 NC	3SB3255-0AA41							
	blue	1 NO + 1 NC	3SB3255-0AA51							
	white	1 NO + 1 NC	3SB3255-0AA61							
	clear	1 NO + 1 NC	3SB3255-0AA71							

1) For assemblies with spring loaded contact blocks add suffix -0CC0.

2) Inscription by inserting a label is possible for all colors except white.

Pushbutton Units and Indicator Lights

SIRIUS Plastic 3SB3, ○ Round Design, 22 mm

Complete units

Selection and ordering data



Illuminated pushbutton unit with flat button

Version	Color of actuator	Contacts for	Order No.	List Price \$ 1 unit	Weight approx. kg	Pack Unit
Illuminated pushbutton with flat button¹⁾ momentary with BA 9s lamp holder with incandescent lamp 24 V AC/DC	red	1 NC	3SB3213-0AA21		0.04	1
	yellow	1 NO	3SB3212-0AA31			
	green	1 NO	3SB3212-0AA41			
	blue	1 NO	3SB3212-0AA51			
	white	1 NO	3SB3212-0AA61			
	clear	1 NO	3SB3212-0AA71			
	red	1 NO + 1 NC	3SB3221-0AA21		0.04	1
	yellow	1 NO + 1 NC	3SB3221-0AA31			
	green	1 NO + 1 NC	3SB3221-0AA41			
	blue	1 NO + 1 NC	3SB3221-0AA51			
with BA 9s lamp holder with incandescent lamp 230 V AC/DC	white	1 NO + 1 NC	3SB3221-0AA61			1
	clear	1 NO + 1 NC	3SB3221-0AA71			
	red	1 NC	3SB3216-0AA21		0.04	1
	yellow	1 NO	3SB3214-0AA31			
	green	1 NO	3SB3214-0AA41			
with BA 9s lamp holder without lamp incl. holder for 3 elements	blue	1 NO	3SB3214-0AA51			
	white	1 NO	3SB3214-0AA61			
	clear	1 NO	3SB3214-0AA71			
	red	1 NO + 1 NC	3SB3213-0AA21		0.047	1
	yellow	1 NO + 1 NC	3SB3213-0AA31			
	green	1 NO + 1 NC	3SB3213-0AA41			
with BA 9s lamp holder without lamp incl. holder for 3 elements	blue	1 NO + 1 NC	3SB3213-0AA51			
	white	1 NO + 1 NC	3SB3213-0AA61			
	clear	1 NO + 1 NC	3SB3213-0AA71			
	red	1 NC	3SB3207-0AA21		0.05	1
	yellow	1 NO	3SB3206-0AA31			
with BA 9s lamp holder without lamp incl. holder for 3 elements	green	1 NO	3SB3206-0AA41			
	blue	1 NO	3SB3206-0AA51			
	white	1 NO	3SB3206-0AA61			
	clear	1 NO	3SB3206-0AA71			
	red	1 NO + 1 NC	3SB3205-0AA21		0.06	1
with BA 9s lamp holder without lamp incl. holder for 3 elements	yellow	1 NO + 1 NC	3SB3205-0AA31			
	green	1 NO + 1 NC	3SB3205-0AA41			
	blue	1 NO + 1 NC	3SB3205-0AA51			
	white	1 NO + 1 NC	3SB3205-0AA61			
clear	1 NO + 1 NC	3SB3205-0AA71				

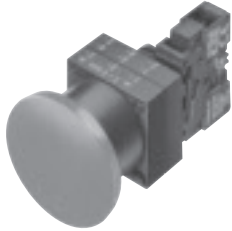






1) Inscription by inserting a label is possible for all colors except white.
2) For assemblies with spring loaded contact blocks, add suffix -OCC0.

Pushbutton Units and Indicator Lights

SIRIUS Plastic 3SB3, ○ Round Design, 22 mm

Complete units

Selection and ordering data

	Version	Color of actuator/ Lock No.	Contacts for frontplate mounting	Order No.	List Price \$ 1 unit	Weight approx. kg	Pack Unit
Mushroom push-pull-button unit 	Mushroom push-pull button unit, Ø 40 mm¹⁾, maintained, unlatching by pulling	red	1 NC	3SB32 03-1CA21		0.036	1
			1 NO + 1 NC	3SB32 01-1CA21		0.045	
Selector switch 	Selector switch, 2 switching positions Switching sequence O-I, maintained, operating angle 50° 	black	1 NO	3SB32 02-2KA11		0.033	1
			1 NO + 1 NC	3SB32 01-2KA11		0.042	
	Selector switch, 3 switching positions Switching sequence I-O-II, maintained, operating angle 2 x 50° 	black	1 NO, 1 NO	3SB32 10-2DA11		0.043	1
			1 NO + 1 NC, 1 NO + 1 NC	3SB32 08-2DA11		0.061	
			1 NO, 1 NO	3SB32 10-2EA11		0.043	1
			1 NO + 1 NC, 1 NO + 1 NC	3SB32 08-2EA11		0.061	
RONIS key operated switch 	RONIS key-operated switch, flat, 2 switching positions Switching sequence O-I, maintained, with key removable in any position, 50° operating angle 	SB 30	1 NO	3SB32 02-4AD11		0.085	1
			1 NO + 1 NC	3SB32 01-4AD11		0.095	
	Switching sequence I-O-II, maintained, operating angle 2 x 50° 		1 NO, 1 NO	3SB32 10-4DD11		0.176	1
			1 NO + 1 NC, 1 NO + 1 NC	3SB32 08-4DD11		0.205	

EMERGENCY-STOP command acc. to EN 418 with yellow backing plate, Ø 80 mm, labelled, can also be used with 3TK28 contactor safety relays (see Section 13)

➔ Positive opening acc. to IEC 60 947-5-1, Appendix K, and DIN VDE 0660 Part 200.




1) For assemblies with spring loaded contact blocks add suffix -OCC0.

Pushbutton Units and Indicator Lights

SIRIUS Plastic 3SB3, ○ Round Design, 22 mm

Complete units

Selection and ordering data

Version	Color of lens	Operational voltage	Order No.	List Price \$ 1 unit	Weight approx. kg	Pack Unit
 <p>Indicator light with smooth lens</p>	Indicator light with smooth lens					
	with integrated LED 24 V AC/DC ¹⁾	red yellow green blue white clear	3SB32 44-6AA20 3SB32 44-6AA30 3SB32 44-6AA40 3SB32 44-6AA50 3SB32 44-6AA60 3SB32 44-6AA70		0.03	1
	with integrated LED 110 V AC	red yellow green blue white clear	3SB32 48-6AA20 3SB32 48-6AA30 3SB32 48-6AA40 3SB32 48-6AA50 3SB32 48-6AA60 3SB32 48-6AA70		0.04	1
	with integrated LED 230 V AC/DC ¹⁾	red yellow green blue white clear	3SB32 52-6AA20 3SB32 52-6AA30 3SB32 52-6AA40 3SB32 52-6AA50 3SB32 52-6AA60 3SB32 52-6AA70		0.04	1
	with BA 9s lamp holder with lamp (130 V) 24 V AC/DC	red yellow green blue white clear	3SB32 17-6AA20 3SB32 17-6AA30 3SB32 17-6AA40 3SB32 17-6AA50 3SB32 17-6AA60 3SB32 17-6AA70		0.04	1
	with BA 9s lamp holder with lamp (130 V) 230 V AC/DC ¹⁾	red yellow green blue white clear	3SB32 12-6AA20 3SB32 12-6AA30 3SB32 12-6AA40 3SB32 12-6AA50 3SB32 12-6AA60 3SB32 12-6AA70		0.04	1
with BA 9s lamp holder without lamp ¹⁾	red yellow green blue white clear	3SB32 04-6AA20 3SB32 04-6AA30 3SB32 04-6AA40 3SB32 04-6AA50 3SB32 04-6AA60 3SB32 04-6AA70		0.04	1	
 <p>EMERGENCY-STOP mushroom pushbutton unit</p>	EMERGENCY-STOP mushroom pushbutton unit, Ø 40 mm, maintained, with positive latching function, with pull-to-unlatch mechanism, maintained	red 1 NC →	3SB32 03-1TR20		0.036	1
		1 NO → + 1 NC	3SB32 01-1TR20		0.045	
			 <p>98 4014</p>			

1) For assemblies with spring loaded contact blocks add suffix -0CC0.

Pushbutton Units and Indicator Lights

SIRIUS Plastic 3SB3, ○ Round Design, 22 mm

Selection

Selection and ordering data



Indicator light with lens with concentric rings



Audible signal device



Drive for potentiometer



3RU19 00-1A with pushbutton and reset extension

Version	Color of lens	Operational voltage	Order No.	List Price \$ 1 unit	Weight approx. kg	Pack Unit
Indicator light with lens with concentric rings¹⁾						
with integrated LED ²⁾ 24 V AC/DC	red		3SB32 44-6BA20		0.04	1
	yellow		3SB32 44-6BA30			
	green		3SB32 44-6BA40			
	blue		3SB32 44-6BA50			
	white		3SB32 44-6BA60			
	clear		3SB32 44-6BA70			
with BA 9s lamp holder with incandescent lamp (130 V) 24 V AC/DC	red		3SB32 36-6BA20		0.04	1
	yellow		3SB32 36-6BA30			
	green		3SB32 36-6BA40			
	blue		3SB32 36-6BA50			
	white		3SB32 36-6BA60			
	clear		3SB32 36-6BA70			
with integrated LED 110 V AC	red		3SB32 48-6BA20		0.04	1
	yellow		3SB32 48-6BA30			
	green		3SB32 48-6BA40			
	blue		3SB32 48-6BA50			
	white		3SB32 48-6BA60			
	clear		3SB32 48-6BA70			
with integrated LED ²⁾ 230 V AC	red		3SB32 52-6BA20		0.04	1
	yellow		3SB32 52-6BA30			
	green		3SB32 52-6BA40			
	blue		3SB32 52-6BA50			
	white		3SB32 52-6BA60			
	clear		3SB32 52-6BA70			
with BA 9s lamp holder ²⁾ without lamp	amber		3SB32 04-6BA00		0.04	1
	red		3SB32 04-6BA20			
	yellow		3SB32 04-6BA30			
	green		3SB32 04-6BA40			
	blue		3SB32 04-6BA50			
	white		3SB32 04-6BA60			
	clear		3SB32 04-6BA70			
Audible signal device, IP 65						
Continuous tone (2.4 kHz)		24 V AC/DC	3SB32 33-7BA10		0.03	1
Min. operational current 10 mA		115 V AC/DC	3SB32 34-7BA10			
Min. sound pressure 80 dB/10 cm		230 V AC/DC	3SB32 35-7BA10			
Drive for potentiometer³⁾⁴⁾						
			3SB10 00-7CH07		0.02	1
Mechanical RESET³⁾						
Overload reset adapter		S00 to	▶ 3RU19 00-1A		0.038	1 set
Reset pushbutton IP65 Ø 22mm, 12mm stroke		S10/S12	▶ 3SB30 00-0EA11		0.021	1 unit
Reset extension		S10/S12	A 3SX1335		0.004	1 unit
Complete assembly			3SBES-RESET			
See Section 3 for dimensional data						

1) Inscription by laser not possible.

2) For assemblies with spring loaded contact blocks add suffix -OCC0.

3) Cannot be used with 3SB38 enclosures.









4) The potentiometer is not included in the scope of supply.

Pushbutton Units and Indicator Lights

SIRIUS Plastic 3SB3, ○ Round Design, 22 mm

Pushbuttons

Selection and ordering data

Version	Color of operator	Inscription	Order No.	List Price \$ 1 unit	Weight approx. kg	Pack Unit
<i>including holder ¹⁾</i>						
 <p>Pushbutton with flat button</p>	Pushbutton with flat button momentary	black	I O I O R down up forward reverse on start reset	3SB30 00-0AA11 3SB30 00-0AA21 3SB30 00-0AA31 3SB30 00-0AA41 3SB30 00-0AA51 3SB30 00-0AA61 3SB30 00-0AB51 3SB30 00-0AA71 3SB30 00-0AA81 3SB30 00-0AB01 3SB30 00-0AB11 3SB30 00-0AB21 3SB30 00-0AC81 3SB30 00-0AA11-ZEE 3SB30 00-0AA11-ZED 3SB30 00-0AA11-ZEF 3SB30 00-0AA11-ZEG 3SB30 00-0AA41-ZEB 3SB30 00-0AA41-ZEL 3SB30 00-0AA51-ZEM	0.02	1
		red				
		yellow				
		green				
		blue				
		white				
		grey				
		clear ²⁾				
		green				
		red				
		white				
		black				
		blue				
		black				
		black				
		black				
		green				
		red				
blue						
 <p>Pushbutton with raised button</p>	Pushbutton with raised button momentary	black	off stop	3SB30 00-0BA11 3SB30 00-0BA21 3SB30 00-0BA31 3SB30 00-0BA41 3SB30 00-0BA51 3SB30 00-0BA61 3SB30 00-0BA21-ZEC 3SB30 00-0BA21-ZEK	0.02	1
		red				
		yellow				
		green				
		blue				
		white				
 <p>Pushbutton with raised front ring (Height 13 mm)</p>	Pushbutton, locking with raised button, can be locked by depressing and turning clockwise; unlocking by turning anti-clockwise	black	3SB30 00-0CA11 3SB30 00-0CA21	0.03	1	
		red				
 <p>Pushbutton with raised front ring</p>	Pushbutton with raised front ring with castellations, (Height 13 mm)	black	3SB30 00-0AA12 3SB30 00-0AA22 3SB30 00-0AA32 3SB30 00-0AA42 3SB30 00-0AA52 3SB30 00-0AA62	0.02	1	
		red				
		yellow				
		green				
		blue				
 <p>Pushbutton with raised front ring (castell.)</p>	Illuminated pushbutton with flat button momentary incl. holder for 3 elements	amber	3SB30 01-0AA01 3SB30 01-0AA21 3SB30 01-0AA31 3SB30 01-0AA41 3SB30 01-0AA51 3SB30 01-0AA61 3SB30 01-0AA71	0.02	1	
		red ²⁾				
		yellow ²⁾				
		green ²⁾				
		blue ²⁾				
 <p>Illuminated pushbutton with flat button</p>	Illuminated pushbutton with raised button momentary incl. holder for 3 elements	red	3SB30 01-0BA21 3SB30 01-0BA31 3SB30 01-0BA41 3SB30 01-0BA51 3SB30 01-0BA71	0.02	1	
		yellow				
		green				
		blue				
		clear				
 <p>Illuminated pushbutton</p>	Pushbutton, with flat button maintained, unlatching by pressing	black	3SB30 00-0DA11 3SB30 00-0DA21 3SB30 00-0DA31 3SB30 00-0DA41 3SB30 00-0DA51 3SB30 00-0DA61 3SB30 00-0DB51	0.07	1	
		red				
		yellow				
		green				
		blue				
		white				
		grey				
 <p>Illuminated pushbutton</p>	Illuminated pushbutton, with flat button incl. holder for 3 elements, maintained, unlatching by pressing	red ²⁾	3SB30 01-0DA21 3SB30 01-0DA31 3SB30 01-0DA41 3SB30 01-0DA51 3SB30 01-0DA61 3SB30 01-0DA71	0.07	1	
		yell. ²⁾				
		green ²⁾				
		blue ²⁾				
		white				
		white				
		clear ²⁾				

For contact blocks and lamp holders, see pages 10/60-10/63.
For insert labels and back plates, see pages 10/66-10/69.

For other accessories, see pages 10/70-10/74.

1) Also available without holder. Supplement Order No. with "-Z" and quote order code "B01".





2) Inscription by inserting a label is possible.

Pushbutton Units and Indicator Lights

SIRIUS Plastic 3SB3, ○ Round Design, 22 mm

Pushbuttons

Selection and ordering data

Version	Color of operator	Order No.	List Price \$ 1 unit	Weight approx. kg	Pack Unit
<i>including holder¹⁾</i>					
 Mushroom pushbutton, Ø 30 mm	Mushroom pushbutton, Ø 30 mm momentary	black red yellow green	3SB30 00-1DA11 3SB30 00-1DA21 3SB30 00-1DA31 3SB30 00-1DA41	0.03	1
	Mushroom pushbutton, Ø 40 mm momentary	black red yellow green	3SB30 00-1GA11 3SB30 00-1GA21 3SB30 00-1GA31 3SB30 00-1GA41	0.03	1
	Mushroom pushbutton, Ø 60 mm momentary	black red yellow green	3SB30 00-1QA11 3SB30 00-1QA21 3SB30 00-1QA31 3SB30 00-1QA41		
	Illuminated mushroom pushbutton, Ø 30 mm incl. holder for 3 elements	yellow green white	3SB30 01-1DA31 3SB30 01-1DA41 3SB30 01-1DA61	0.03	1
 Mushroom pushbutton, Ø 40 mm	Illuminated mushroom pushbutton, Ø 40 mm incl. holder for 3 elements	yellow green white	3SB30 01-1GA31 3SB30 01-1GA41 3SB30 01-1GA61	0.03	1
	Push-pull button Ø 30 mm maintained, unlatching by pulling	black red ²⁾	3SB30 00-1EA11 3SB30 00-1EA21	0.03	1
 Illuminated mushroom push- button, Ø 30 mm	Push-pull button Ø 40 mm maintained, unlatching by pulling	black red	3SB30 00-1CA11 3SB30 00-1CA21	0.03	1
	Push-pull buttons, Ø 60 mm maintained, unlatching by pulling	black red	3SB30 00-1RA11 3SB30 00-1RA21		
 Illuminated mushroom push- button, Ø 40 mm	Push-pull button, Ø 30 mm, illuminated maintained, incl. holder for 3 elements, unlatching by pulling	red yellow green blue clear	3SB30 01-1EA21 3SB30 01-1EA31 3SB30 01-1EA41 3SB30 01-1EA51 3SB30 01-1EA71	0.03	1
	Push-pull button, Ø 40 mm illuminated maintained, incl. holder for 3 elements, unlatching by pulling	red yellow green blue clear	3SB30 01-1CA21 3SB30 01-1CA31 3SB30 01-1CA41 3SB30 01-1CA51 3SB30 01-1CA71	0.03	1

For contact blocks and lamp holders, see pages 10/60-10/63.
For insert labels and back plates, see pages 10/66-10/69.

For other accessories, see pages 10/70-10/74.

- 1) Also available without holder. Supplement Order No. with "-Z" and quote order code "B01".
- 2) Maximum components provided: 3 single pole or 2 double-pole contact elements. When using the 3SB39 01-0AB holder, the central command position must not be empty.

Pushbutton Units and Indicator Lights

SIRIUS Plastic 3SB3, ○ Round Design, 22 mm

Emergency-stop

Version	Color of operator / position for key removal	Approval	Order No.	List Price \$	Weight per PU, approx	PS*
				1 unit	kg	
EMERGENCY-STOP control devices according to EN 418 and IEC 60947-5-5 with holder¹⁾²⁾ Also for use with 3TK28 contactor safety combinations (see Section 11)						
 Mushroom diameter 32 mm	EMERGENCY-STOP mushroom pushbutton, Ø 32 mm, with positive latching function acc. to EN 418, rotate to unlatch	red			0.032	1 unit
 Mushroom diameter 40 mm, rotate to unlatch	EMERGENCY-STOP mushroom pushbutton, Ø 40 mm, with positive latching function acc. to EN 418, rotate to unlatch - standard - flat head style - with mechanical switching position indication	red		3SB30 00-1HA20 3SB30 00-1XA20 3SB30 00-1HA26	0.055	1 unit
 Mushroom diameter 40 mm, rotate to unlatch	EMERGENCY-STOP mushroom pushbutton, Ø 40 mm, with positive latching function acc. to EN 418, rotate to unlatch - standard	red		3SB30 00-1TA20	0.050	1 unit
 Mushroom diameter 40 mm, pull to unlatch	EMERGENCY-STOP mushroom pushbutton, Ø 60 mm, with positive latching function acc. to EN 418, rotate to unlatch - standard	red		3SB30 00-1AA20	0.044	1 unit
 Mushroom diameter 60 mm	EMERGENCY-STOP mushroom pushbutton, Ø 40 mm, with RONIS key-operated switch, lock No. SB 30, with positive latching to EN 418, unlocking only possible using key	red ON/OFF		3SB30 00-1BA20	0.086	1 unit
 Mushroom diameter 60 mm	EMERGENCY-STOP mushroom pushbutton, Ø 40 mm, with CES key-operated switch, lock No. SSG 10, with positive latching to EN 418, unlocking only possible using key	red ON/OFF		3SB30 00-1KA20	0.114	1 unit
 Mushroom diameter 40 mm, with key-operated switch	EMERGENCY-STOP mushroom pushbutton, Ø 40 mm, with BKS key-operated switch, lock No. S1, with positive latching to EN 418, unlocking only possible using key	red ON/OFF		3SB30 00-1LA20	0.112	1 unit
 Mushroom diameter 40 mm, with key-operated switch	EMERGENCY-STOP mushroom pushbutton, Ø 40 mm, with O.M.R. key-operated switch, lock No. 73037, with positive latching to EN 418, unlocking only possible using key	red ON/OFF		3SB30 00-1MA20	0.120	1 unit
 Mushroom diameter 40 mm	EMERGENCY-STOP mushroom pushbutton, Ø 40 mm, with 'EMO' marking for SEMI S2 compliance with mechanical latching function acc. to EN 418, turn knob to left to unlatch	red (flat)		3SB30 00-1XB80	0.044	1 unit

For contact blocks and lamp holders, see pages 10/60-10/63.

For insert labels and back plates, see pages 10/66-10/69.
For other accessories, see pages 10/70-10/74.



1) Also available without holder. Supplement Order No. with "-Z" and quote order code "B01".

2) The yellow backing plate must be ordered sep-

Pushbutton Units and Indicator Lights

SIRIUS Plastic 3SB3, ○ Round Design, 22 mm

Indicator lights and audible signaling devices

Version	Color of lens	Order No.	List Price \$ 1 unit	Weight per PU, approx. kg	PS*
Signaling elements with holders¹⁾					
	Indicator light with smooth lens²⁾ amber red yellow green blue white clear	3SB30 01-6AA00		0.023	1 unit
		3SB30 01-6AA20			
		3SB30 01-6AA30			
		3SB30 01-6AA40			
		3SB30 01-6AA50			
		3SB30 01-6AA60			
		3SB30 01-6AA70			
	Indicator light with lens with concentric rings²⁾ amber red yellow green blue white clear	3SB30 01-6BA00		0.022	1 unit
		3SB30 01-6BA20			
		3SB30 01-6BA30			
		3SB30 01-6BA40			
		3SB30 01-6BA50			
		3SB30 01-6BA60			
		3SB30 01-6BA70			
	Acoustic signaling device, IP40³⁾ for acoustic signal transformer 24 V DC with BA 9s base ⁴⁾	black	3SB30 00-7AA10	0.024	1 unit

For contact blocks and lamp holders, see pages 10/60-10/63.
 For insert labels and back plates, see pages 10/66-10/69.
 For other accessories, see pages 10/70-10/74.

- 1) Also available without holder. Supplement Order No. with "-Z" and quote order code "B01".
- 2) Inscription by inserting label is not possible.
- 3) Acoustic signal device, IP65, see complete device combinations.









- 4) To order 3SB1902-2BN acoustic signal transformers separately, see Accessories. The 3SB34 00-1A lampholder is also required; only version with screw terminals can be used. With front mounting, use in the enclosure is also possible.

Pushbutton Units and Indicator Lights

SIRIUS Plastic 3SB3, ○ Round Design, 22 mm

Selector switches

Selection and ordering data

Version	Color of operator	Order No.	List Price \$ 1 unit	Weight approx. kg	Pack Unit
<i>including holder¹⁾</i>					
Selector switches with 2 switching positions					
	 Switching sequence O-I, maintained, 90° operating angle	non-illuminated black red	3SB30 00-2HA11 3SB30 00-2HA21 3SB30 00-2HA41 3SB30 00-2HA61		
		green white			
		non-illuminated black red			
green white					
illuminated red	3SB30 01-2KA21 3SB30 01-2KA31 3SB30 01-2KA41 3SB30 01-2KA51 3SB30 01-2KA71	0.023	1		
with holder for 3 elements yellow green					
blue clear					
	 Switching sequence O-I, momentary, (spring return from the right), 50° operating angle	non-illuminated black red	3SB30 00-2LA11 3SB30 00-2LA21 3SB30 00-2LA41 3SB30 00-2LA61	0.023	1
		green white			
		illuminated red			
		with holder for 3 elements yellow green			
		blue clear			
		Selector switches with 3 switching positions			
	 Switching sequence I-O-II, maintained, 2 x 50° operating angle	non-illuminated black red	3SB30 00-2DA11 3SB30 00-2DA21 3SB30 00-2DA41 3SB30 00-2DA61	0.023	1
		green white			
		illuminated red			
with holder for 3 elements yellow green					
blue clear					
	 Switching sequence I-O-II, maintained, (spring return from the right and left), 2 x 50° operating angle	non-illuminated black red	3SB30 00-2EA11 3SB30 00-2EA21 3SB30 00-2EA41 3SB30 00-2EA61	0.023	1
		green white			
		illuminated red			
with holder for 3 elements yellow green					
blue clear					
	 Switching sequence I-O-II, maintained to the right, momentary to the left (spring return from the left), 2 x 50° operating angle	non-illuminated black red	3SB30 00-2GA11 3SB30 00-2GA21 3SB30 00-2GA41 3SB30 00-2GA61	0.023	1
		green white			
		illuminated red			
incl. holder for 3 elements yellow green					
blue clear					
	 Switching sequence I-O-II, maintained to the left, momentary to the right (spring return from the right), 2 x 50° operating angle	non-illuminated black red	3SB30 00-2FA11 3SB30 00-2FA21 3SB30 00-2FA41 3SB30 00-2FA61	0.023	1
		green white			
		illuminated red			
incl. holder for 3 elements yellow green					
blue clear					

For contact block position chart, see page 10/65.

For contact blocks and lamp holders, see pages 10/60-10/63.

For insert labels and back plates, see pages 10/66-10/69.

For other accessories, see pages 10/70-10/74.









1) Also available without holder. When ordering, append "-Z" to the order number and specify order code "B01".

Pushbutton Units and Indicator Lights

SIRIUS Plastic 3SB3, ○ Round Design, 22 mm

Key operated switches

Selection and ordering data

Version	Type	Lock No./ color	Key removable in position	Order No.	List Price \$ 1 unit	Weight approx. kg	Pack Unit
<i>including holder¹⁾</i>							
Key operated switches with 2 keys and 2 switching positions							
RONIS key operated switch 		Switching sequence O-I, maintained, 50° operating angle	RONIS SB 30 flat	O+I O I	3SB30 00-4HD11 3SB30 00-4HD01 3SB30 00-4HD21	0.075	1
		Switching sequence O-I, maintained, 50° operating angle	RONIS SB 30 flat	O+I O I	3SB30 00-4AD11 3SB30 00-4AD01 3SB30 00-4AD21	0.075	1
CES key operated switch 			CES SSG 10	O+I O I	3SB30 00-4LD11 3SB30 00-4LD01 3SB30 00-4LD21	0.126	1
			LSG 1	O+I O	3SB30 00-4LF01 3SB30 00-4LF11		
IKON key operated switch 			CES with key monitoring ²⁾	O	3SB30 00-4LD05	0.126	1
			IKON 360012 K1	O+I O	3SB30 00-5LD11 3SB30 00-5LD01	0.131	1
BKS key operated switch 			BKS S 1	O+I O I	3SB30 00-5AD11 3SB30 00-5AD01 3SB30 00-5AD21	0.126	1
			O.M.R. ³⁾ 73038 light blue	O+I O	3SB30 00-3AG11 3SB30 00-3AG01	0.117	1
			73037 red	O+I O	3SB30 00-3AH11 3SB30 00-3AH01		
			73034 black	O+I O I	3SB30 00-3AJ11 3SB30 00-3AJ01 3SB30 00-3AJ21		
O.M.R. key operated switch 			73033 yellow	O+I O	3SB30 00-3AK11 3SB30 00-3AK01		
		Switching sequence O-I, momentary, (spring return from the right), 50° operating angle	RONIS SB 30 flat	O	3SB30 00-4BD01	0.075	1
			CES SSG 10	O	3SB30 00-4MD01	0.126	1
			LSG 1	O	3SB30 00-4MF11		
			IKON 360012 K1	O	3SB30 00-5MD01	0.131	1
			BKS S 1	O	3SB30 00-5BD01	0.126	1
			O.M.R. ³⁾ 73038 light blue	O	3SB30 00-3BG01	0.117	1
			73037 red	O	3SB30 00-3BH01		
			73034 black	O	3SB30 00-3BJ01		
			73033 yellow	O	3SB30 00-3BK01		

For special designs, see page 10/59.
 For contact block position chart, see page 10/65.
 For contact blocks and lamp holders, see pages 10/60-10/63.
 For insert labels and back plates, see pages 10/66-10/69.
 For other accessories, see pages 10/70-10/74.

- Also available without holder. When ordering, append "-Z" to the order number and specify order code "B01".
- The key scan must only be performed by a single-pole contact block which must be arranged in the middle slot of the key-operated switch. This single-pole contact block is used only to scan whether the key is inserted or not. It is not used for actuating the control circuit. The holder for 3 contact blocks is included in the scope of

supply. Special locks can be ordered only with order code "Y01".










- In accordance with FIAT car company standards, can also be used by other users.

Pushbutton Units and Indicator Lights

SIRIUS Plastic 3SB3, ○ Round Design, 22 mm

Key operated switches

Selection and ordering data

Version	Type	Lock No./color	Key removable in position	Order No.	List Price \$ 1 unit	Weight approx. kg	Pack Unit
<i>including holder¹⁾</i>							
RONIS key operated switch	Key operated switches with 2 keys and 3 switching positions						
	Switching sequence I-O-II, maintained, 2 x 50° operating angle	RONIS SB 30 flat	O+I+II O I+II I II O+I	3SB30 00-4DD11 3SB30 00-4DD01 3SB30 00-4DD41 3SB30 00-4DD21 3SB30 00-4DD31 3SB30 00-4DD51		0.075	1
CES key operated switch		CES SSG 10	O+I+II O I+II I II	3SB30 00-4PD11 3SB30 00-4PD01 3SB30 00-4PD41 3SB30 00-4PD21 3SB30 00-4PD31		0.126	1
		CES with key monjito ring ²⁾	O	3SB30 00-4PD05		0.126	1
		IKON 360012 K1	O+I+II	3SB30 00-5PD11		0.131	1
		BKS S 1	O+I+II O II	3SB30 00-5DD11 3SB30 00-5DD01 3SB30 00-5DD31		0.126	1
		O.M.R. ³⁾ 73038 light blue	I+O+II O	3SB30 00-3DG11 3SB30 00-3DG01		0.117	1
		73037 red	O+I O	3SB30 00-3DH51 3SB30 00-3DH01			
		73034 black	I+O+II O	3SB30 00-3DJ11 3SB30 00-3DJ01			
		73033 yellow	I+O+II	3SB30 00-3DK11			
BKS key operated switch	Switching sequence I-O-II, momentary (spring return from right and left), 2 x 50° operating angle	RONIS SB 30 flat	O	3SB30 00-4ED01		0.075	1
		CES SSG 10	O	3SB30 00-4QD01		0.126	1
		IKON 350012 K1	O	3SB30 00-5QD01		0.131	1
		BKS S 1	O	3SB30 00-5ED01		0.126	1
		O.M.R. ³⁾ 73038 light blue	O	3SB30 00-3EG01		0.117	1
		73037 red	O	3SB30 00-3EH01			
		73034 black	O	3SB30 00-3EJ01			

For special designs, see page 10/59.
For contact block position chart, see page 10/65.
For contact blocks and lamp holders, see pages 10/60-10/63.
For insert labels and back plates, see pages 10/66-10/69.
For other accessories, see pages 10/70-10/74.

1) Also available without holder. When ordering, append "--Z" to the order number and specify order code "B01".

2) The key scan must only be performed by a single-pole contact block which must be arranged in the middle slot of the key-operated switch. This single-pole contact block is used only to scan whether the key is inserted or not. It is not used for actuating the control circuit. The holder for 3 contact blocks is included in the scope of supply. Special locks can be ordered only with order code "Y01".








3) In accordance with FIAT car company standards, can also be used by other users.

Pushbutton Units and Indicator Lights

SIRIUS Plastic 3SB3, ○ Round Design, 22 mm

Key operated switches

Selection and ordering data

Version	Type	Lock No./ color	Key remov- able in position	Order No.	List Price \$ 1 unit	Weight approx. kg	Pack Unit
<i>including holder¹⁾</i>							
RONIS key operated switch	Key operated switches with 2 keys and 3 switching positions						
		Switching sequence I-O-II, maintained, to the right, momentary, to the left (spring return from the left), 2 x 50° operating angle	RONIS SB 30 flat	O+II O II	3SB30 00-4GD61 3SB30 00-4GD01 3SB30 00-4GD31	0.075	1
			CES SSG 10	O+II O II	3SB30 00-4SD61 3SB30 00-4SD01 3SB30 00-4SD31	0.126	1
			BKS S 1	O	3SB30 00-5GD01	0.126	1
CES key operated switch		Switching sequence I-O-II, maintained, to the left, momentary, to the right (spring return from the right), 2 x 50° operating angle	RONIS SB 30 flat	O+I O I	3SB30 00-4FD51 3SB30 00-4FD01 3SB30 00-4FD21	0.075	1
			CES SSG 10	O+I O I	3SB30 00-4RD51 3SB30 00-4RD01 3SB30 00-4RD21	0.126	1
			IKON 360012 K1	O+I	3SB30 00-5RD51	0.131	1
			BKS 1 NO	O+I O I	3SB30 00-5FD51 3SB30 00-5FD01 3SB30 00-5FD21	0.126	1
IKON key operated switch			O.M.R. 73038 ²⁾ light blue	O	3SB30 00-3FG01	0.117	1
			73034 black	I	3SB30 00-3FJ21		
BKS key operated switch							
							
O.M.R. key operated switch							
							

For contact block position chart, see page 10/65.
For contact blocks and lamp holders, see pages 10/60-10/63.

For insert labels and back plates, see pages 10/66-10/69.
For other accessories, see pages 10/70-10/74.

1) Also available without holder. When ordering, append "-Z" to the order number and specify order code "B01".

2) According to FIAT standards, also available for other users.

Pushbutton Units and Indicator Lights

SIRIUS Plastic 3SB3, ○ Round Design, 22 mm

Joystick switch, complete

Overview



Application

Joystick switches control auxiliary circuits permitting movements in various directions of machines and equipment.

The switches are designed for front panel mounting. They are climate-proof.

Technical specifications

Standards: IEC 60947-5-1 (VDE 0660 Part 200).

Rated operating currents for DC according to table:

Type	3SB1201-7	
Operational class	DC-12	DC-13
Rated operating current I_e at rated operating voltage U_e		
• At DC 24 V	10	5
• At DC 110 V	2	0.5
• At DC 230 V	0.5	0.2

Design

The 3SB14 00-0J switch block is used, which due to its depth cannot be built into enclosures.

Switches are available

- With 2 or 4 positions,
- Latching or momentary contact type,
- With or without mechanical interlocking.

Version with mechanical locking in the O position

The switch is unlatched with the unlatching selector switch at the front of the actuating lever.

Inscription

For labeling, a name plate is available, consisting of a black, molded-plastic label holder and two or four adhesive labeling plates of 27 mm x 27 mm in size. They can be supplied with and without inscription.

Pushbutton Units and Indicator Lights

SIRIUS Plastic 3SB3, ○ Round Design, 22 mm

Joystick switch, complete

Selection and ordering data

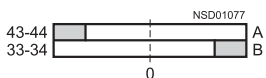
Version	Contactor travel	Order No. For Order No. suffixes below	List Price \$	Weight approx.	Packs
	<input type="checkbox"/> contact closed <input type="checkbox"/> contact open		1 unit	kg	Unit

Joystick switches, complete



2 switch positions, 1 NO per direction

Horizontal, momentary contact type



Without mechanical locking in the

○ position

With mechanical locking in the

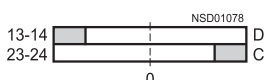
○ position

3SB12 01-7DV..

0.065 1 unit

3SB12 01-7DW..

Vertical, momentary contact type



Without mechanical locking in the

○ position

With mechanical locking in the

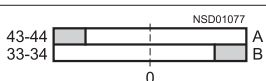
○ position

3SB12 01-7FV..

0.065 1 unit

3SB12 01-7FW..

Horizontal, latching



Without mechanical locking in the

○ position

With mechanical locking in the

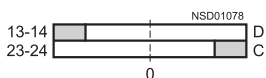
○ position

3SB12 01-7EV..

0.065 1 unit

3SB12 01-7EW..

Vertical, latching



Without mechanical locking in the

○ position

With mechanical locking in the

○ position

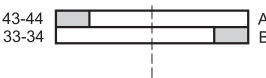
3SB12 01-7GV..

0.065 1 unit

3SB12 01-7GW..

4 switch positions, 1 NO per direction

Momentary-contact type



Without mechanical locking in the

○ position

With mechanical locking in the

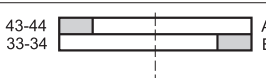
○ position

3SB12 08-7JV..

0.085 1 unit

3SB12 08-7JW..

Latching



Without mechanical locking in the

○ position

With mechanical locking in the

○ position

3SB12 08-7KV..

0.085 1 unit

3SB12 08-7KW..



Order No. suffix

Actuator with molded plastic front ring, black
Actuator with metal front ring

3SB12 0 . -7 . . 01


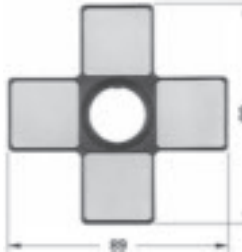
3SB12 0 . -7 . . 20





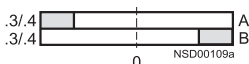
* This quantity or a multiple thereof can be ordered

Pushbutton Units and Indicator Lights

SIRIUS Plastic 3SB3, ○ Round Design, 22 mm

Joystick switch, complete

Version	Order No.	List Price \$	Weight approx.	Packs
		1 unit	kg	Unit
Name plates				
 <p>Label holder for 2 positions, vertical</p>	Label holder for joystick switch 2 positions, horizontal 2 positions, vertical 4 positions	3SB19 06-0AU 3SB19 06-0AV 3SB19 06-0AW	0.003 0.003 0.006	1 1 1
	Labeling plate 27 mm x 27 mm Silver colored for sticking in place Without inscription	3SB19 06-2AA		
	Custom Symbol Inscriptions Acc. to IEC or ISO - Symbol Number must be included with order number using the following format: Z = Symbol # (Ex: Z = 0096 ISO) Acc. to order - A CAD file (.DXF format) must be provided with order. Please submit file along with the following Z = Please inscribe acc. to file_name.DXF.	3SB19 06-2XZK3Y 3SB19 06-2XZK9Y		
 <p>Label holder for 4 switch positions</p>	Custom Text Inscriptions ="- Up to 5 lines of text with 11 characters each - Text heights: 4mm (1 line) and 3mm (2 lines) - Inscription must be submitted with order using the following format: Z = Inscribed text (Ex: Z = PUMP B)"			
	Capital initial letters Capital letters Lower-case letters Acc. to order - Capitalization will appear exactly as provided	3SB19 06-2XZK0Y 3SB19 06-2XZK1Y 3SB19 06-2XZK2Y 3SB19 06-2XZK9Y		

Design switch blocks	Symbols	Contact travel	Order No.	List Price \$	Weight approx.	Packs
		 contact closed  contact open		1 unit	kg	Unit
Spare switch blocks						
	Switch block with 2 contacts 1 NO, 1 NO			3SB14 00-0J	0.016	1





* This quantity or a multiple thereof can be ordered

Pushbutton Units and Indicator Lights



SIRIUS Plastic 3SB3, ○ Round Design, 22 mm

Twin pushbuttons

Selection and ordering data

Version	Color	Order No.	List Price \$	Weight approx.	Pack
			1 unit	kg	Unit
Twin pushbutton with flat buttons 	including holder¹⁾				
	Twin pushbutton, IP 65, with flat buttons²⁾	green/red inscription I/O	3SB31 00-8AC21	0.027	1
	white/black inscription I/O	3SB31 00-8AC31			
Twin pushbutton with indicator light, with flat and raised buttons 	Twin pushbutton, IP 65, with flat and raised buttons²⁾	green/red inscription I/O	3SB31 00-8CC21	0.027	1
		white/black inscription I/O	3SB31 00-8CC31		
Twin pushbutton with indicator light, with flat buttons 	Twin pushbutton with indicator light, IP 65, with flat buttons²⁾ incl. holders for 3 elements	green/red inscription I/O	3SB31 01-8BC21	0.027	1
		white/black inscription I/O	3SB31 01-8BC31		
Twin pushbutton with indicator light, with flat and raised buttons 	Twin pushbutton with indicator light, IP 65, with flat and raised buttons²⁾ incl. holder for 3 elements	green/red ↑/↓	3SB31 01-8BC81		
		green/red inscription I/O	3SB31 01-8DC21	0.027	1
	white/black inscription I/O	3SB31 01-8DC31			

Accessories for twin pushbuttons

Version	Order No.	List Price \$	Weight approx.	Pack
		1 unit	kg	Unit
Legend plate holder 	Label holder, 30 mm x 70 mm, for inscription plate 12.5 mm x 27 mm³⁾	3SB39 22-0AY		5
Protective cap 	Protective cap, clear, silicone, for degree of protection IP 67, can be used for twin pushbutton with flat buttons	3SB39 21-0AQ		1

For contact blocks and lamp holders, see pages 10/60-10/63.
For other accessories, see pages 10/70-10/74.

1) Also available without holder. When ordering, append “-Z” to the order number and specify code “B01”.



2) Black inscription with green, red and white buttons, white inscription with black buttons.
3) For inscription plates, see pages 10/68-10/69.

Pushbutton Units and Indicator Lights

SIRIUS Plastic 3SB3, □ Square Design, 26 mm x 26 mm

Complete units

Selection and ordering data

Version	Color of actuator	Contacts for front plate mounting version	Order No.	List Price \$ 1 unit	Weight approx. kg	Pack Unit	
Pushbutton unit 	Pushbutton units with flat button	black	1 NO	3SB33 02-0AA11		0.029 1	
		black	1 NC	3SB33 03-0AA11			
		red	1 NC	3SB33 03-0AA21			
		yellow	1 NO	3SB33 02-0AA31			
		green	1 NO	3SB33 02-0AA41			
		blue	1 NO	3SB33 02-0AA51			
		white	1 NO	3SB33 02-0AA61			
		black	1 NO + 1 NC	3SB33 01-0AA11			
		red	1 NO + 1 NC	3SB33 01-0AA21			
		yellow	1 NO + 1 NC	3SB33 01-0AA31			
		green	1 NO + 1 NC	3SB33 01-0AA41			
		blue	1 NO + 1 NC	3SB33 01-0AA51			
		white	1 NO + 1 NC	3SB33 01-0AA61			
		Illuminated pushbutton unit 	Illuminated pushbutton units with flat button¹⁾	with integrated LED 24 V AC/DC			red
yellow	1 NO			3SB33 45-0AA31			
green	1 NO			3SB33 45-0AA41			
blue	1 NO			3SB33 45-0AA51			
white	1 NO			3SB33 45-0AA61			
clear	1 NO			3SB33 45-0AA71			
red	1 NO + 1 NC			3SB33 47-0AA21	0.047 1		
yellow	1 NO + 1 NC			3SB33 47-0AA31			
green	1 NO + 1 NC			3SB33 47-0AA41			
blue	1 NO + 1 NC			3SB33 47-0AA51			
white	1 NO + 1 NC			3SB33 47-0AA61			
clear	1 NO + 1 NC			3SB33 47-0AA71			
with integrated LED 230 V AC			red	1 NC	3SB33 54-0AA21	0.040 1	
yellow	1 NO		3SB33 53-0AA31				
green	1 NO		3SB33 53-0AA41				
blue	1 NO		3SB33 53-0AA51				
white	1 NO		3SB33 53-0AA61				
clear	1 NO		3SB33 53-0AA71				
red	1 NO + 1 NC		3SB33 55-0AA21	0.047 1			
yellow	1 NO + 1 NC		3SB33 55-0AA31				
green	1 NO + 1 NC		3SB33 55-0AA41				
blue	1 NO + 1 NC		3SB33 55-0AA51				
white	1 NO + 1 NC		3SB33 55-0AA61				
clear	1 NO + 1 NC		3SB33 55-0AA71				
with BA 9s lamp holder		red	1 NC	3SB33 07-0AA21	0.041 1		
yellow	1 NO	3SB33 06-0AA31					
green	1 NO	3SB33 06-0AA41					
blue	1 NO	3SB33 06-0AA51					
white	1 NO	3SB33 06-0AA61					
clear	1 NO	3SB33 06-0AA71					
red	1 NO + 1 NC	3SB33 05-0AA21	0.050 1				
yellow	1 NO + 1 NC	3SB33 05-0AA31					
green	1 NO + 1 NC	3SB33 05-0AA41					
blue	1 NO + 1 NC	3SB33 05-0AA51					
white	1 NO + 1 NC	3SB33 05-0AA61					
clear	1 NO + 1 NC	3SB33 05-0AA71					

1) Inscription by inserting a label is possible for all colors except white.

Pushbutton Units and Indicator Lights

SIRIUS Plastic 3SB3, □ Square Design, 26 mm x 26 mm

Complete units

Selection and ordering data

EMERGENCY-STOP mushroom pushbutton unit



Version	Color of lens	Contacts for front plate mounting version	Order No.	List Price \$	Weight approx.	Pack
				1 unit	kg	Unit
EMERGENCY-STOP command devices according to EN 418 with yellow backing plate, Ø 80 mm, labelled, can also be used with 3TK28 contactor safety relays (see Section 13)						
Mushroom pushbutton, Ø 40 mm, with positive latching function, rotate-to-unlatch mechanism	red	1 NC →	3SB33 03-1HA20		0.053	1
		1 NO + 1 NC →	3SB33 01-1HA20		0.061	

Indicator light





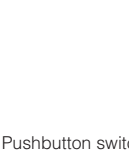


Version	Color of lens	Order No.	List Price \$	Weight approx.	Pack
			1 unit	kg	Unit
Indicator light					
with integrated LED 24 V AC/DC	red	3SB33 44-6AA20		0.03	1
	yellow	3SB33 44-6AA30			
	green	3SB33 44-6AA40			
	blue	3SB33 44-6AA50			
	white	3SB33 44-6AA60			
with integrated LED 230 V AC	clear	3SB33 44-6AA70		0.03	1
	red	3SB33 52-6AA20			
	yellow	3SB33 52-6AA30			
	green	3SB33 52-6AA40			
	blue	3SB33 52-6AA50			
with BA 9s lamp holder (without lamp)	white	3SB33 52-6AA60		0.03	1
	clear	3SB33 52-6AA70			
	red	3SB33 04-6AA20			
	yellow	3SB33 04-6AA30			
	green	3SB33 04-6AA40			
	blue	3SB33 04-6AA50			
	white	3SB33 04-6AA60			
	clear	3SB33 04-6AA70			

Pushbutton Units and Indicator Lights

SIRIUS Plastic 3SB3, □ Square Design, 26 mm x 26 mm

Pushbuttons

Selection and ordering data

Version	Color of actuator	Order No.	List Price \$ 1 unit	Weight approx. kg	Pack Unit
Pushbutton 	including holder¹⁾ Pushbutton with flat button black red yellow green blue white clear ²⁾	3SB31 10-0AA11 3SB31 10-0AA21 3SB31 10-0AA31 3SB31 10-0AA41 3SB31 10-0AA51 3SB31 10-0AA61 3SB31 10-0AA71		0.019	1
Illuminated pushbutton 	Pushbutton with raised front ring guarded (Height 13 mm) black red green white	3SB31 10-0AA12 3SB31 10-0AA22 3SB31 10-0AA42 3SB31 10-0AA62		0.02	1
	Pushbutton with raised front ring with castellations (height 13 mm) black red yellow green white	3SB31 10-0AA13 3SB31 10-0AA23 3SB31 10-0AA33 3SB31 10-0AA43 3SB31 10-0AA63		0.02	1
Pushbutton switch 	Pushbutton switch, maintained, with flat button unlatching by pressing again black red yellow green blue white	3SB31 10-0DA11 3SB31 10-0DA21 3SB31 10-0DA31 3SB31 10-0DA41 3SB31 10-0DA51 3SB31 10-0DA61		0.019	1
Illuminated pushbutton switch 	Illuminated pushbutton switch, maintained, with flat button incl. holder for 3 elements unlatching by pressing again red ²⁾ yell. ²⁾ green ²⁾ blue ²⁾ white clear ²⁾	3SB31 11-0AA21 3SB31 11-0AA31 3SB31 11-0AA41 3SB31 11-0AA51 3SB31 11-0AA61 3SB31 11-0AA71		0.019	1

For contact blocks and lamp holders, see pages 10/60-10/63.
 For insert labels and back plates, see pages 10/66-10/69.
 For other accessories, see pages 10/70-10/74.

1) Also available without holder. When ordering, append “-Z” to the order number and specify code “B01”.
 2) Inscription by inserting a label is possible.










3) Illuminated selector switches available upon request.

Pushbutton Units and Indicator Lights

SIRIUS Plastic 3SB3, □ Square Design, 26 mm x 26 mm

Selector switches

Selection and ordering data

Version	Color of actuator	Order No.	List Price \$	Weight approx.	Pack
			1 unit	kg	Unit
Selector switches with 2 switching positions					
 <p>Selector switch</p>	 <p>Switching sequence O-I, maintained, 50° operating angle</p>	non-illuminated black red green white	3SB31 10-2KA11 3SB31 10-2KA21 3SB31 10-2KA41 3SB31 10-2KA61	0.023	1
		illuminated red incl. holder for 3 yellow elements green blue clear	3SB31 11-2KA21 3SB31 11-2KA31 3SB31 11-2KA41 3SB31 11-2KA51 3SB31 11-2KA71		
 <p>Illuminated selector</p>	 <p>Switching sequence O-I, momentary (spring return from the right), 50° operating angle</p>	non-illuminated black red green white	3SB31 10-2LA11 3SB31 10-2LA21 3SB31 10-2LA41 3SB31 10-2LA61	0.023	1
		illuminated red incl. holder for 3 yellow elements green blue clear	3SB31 11-2LA21 3SB31 11-2LA31 3SB31 11-2LA41 3SB31 11-2LA51 3SB31 11-2LA71		
Selector switches with 3 switching positions					
	 <p>Switching sequence I-O-II, maintained, 2 x 50° operating angle</p>	non-illuminated black red green white	3SB31 10-2DA11 3SB31 10-2DA21 3SB31 10-2DA41 3SB31 10-2DA61	0.023	1
		illuminated red incl. holder for 3 yellow elements green blue clear	3SB31 11-2DA21 3SB31 11-2DA31 3SB31 11-2DA41 3SB31 11-2DA51 3SB31 11-2DA71		
	 <p>Switching sequence I-O-II, momentary, (spring return from the right and left), 2 x 50° operating angle</p>	non-illuminated black red green white	3SB31 10-2EA11 3SB31 10-2EA21 3SB31 10-2EA41 3SB31 10-2EA61	0.023	1
		illuminated red incl. holder for 3 yellow elements green blue clear	3SB31 11-2EA21 3SB31 11-2EA31 3SB31 11-2EA41 3SB31 11-2EA51 3SB31 11-2EA71		
	 <p>Switching sequence I-O-II, maintained to the right, momentary to the left (spring return from the left), 2 x 50° operating angle</p>	non-illuminated³⁾ black green white	3SB31 10-2GA11 3SB31 10-2GA41 3SB31 10-2GA61	0.023	1
	 <p>Switching sequence I-O-II, maintained to the left, momentary to the right (spring return from the right), 2 x 50° operating angle</p>	non-illuminated³⁾ black red green	3SB31 10-2FA11 3SB31 10-2FA21 3SB31 10-2FA41	0.023	1

For contact blocks and lamp holders, see pages 10/60-10/63.
For insert labels and back plates, see pages 10/66-10/69.
For other accessories, see pages 10/70-10/74.

1) Also available without holder. When ordering, append “-Z” to the order number and specify code “B01”.


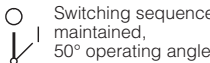

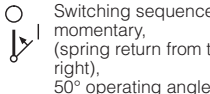

2) Inscription by inserting a label is possible.
3) Illuminated selector switches available upon request.

Pushbutton Units and Indicator Lights

SIRIUS Plastic 3SB3, □ Square Design, 26 mm x 26 mm

Key operated switches

Selection and ordering data

Version	Type	Lock No./color	Key removable in position	Order No.	List Price \$ 1 unit	Weight approx. kg	Pack Unit
<i>including holder¹⁾</i>							
Key operated switches with 2 keys and 2 switching positions							
RONIS key operated switch 		RONIS SB 30 flat	O+I O I	3SB31 10-4AD11 3SB31 10-4AD01 3SB31 10-4AD21		0.075	1
		CES SSG 10	O+I O I	3SB31 10-4LD11 3SB31 10-4LD01 3SB31 10-4LD21		0.126	1
		LSG 1	O	3SB31 10-4LF11			
		IKON 360012 K1	O	3SB31 10-5LD01		0.131	1
		BKS S 1	O+I O	3SB31 10-5AD11 3SB31 10-5AD01		0.126	1
CES key operated switch 		Q.M.R. ²⁾ 73038 light blue	O	3SB31 10-3AG01		0.117	1
		73037 red	O+I O	3SB31 10-3AH11 3SB31 10-3AH01			
		73034 black	O+I	3SB31 10-3AJ11			
		RONIS SB 30 flat	O	3SB31 10-4BD01		0.075	1
		CES SSG 10	O	3SB31 10-4MD01		0.126	1
O.M.R. key operated switch 		IKON 360012 K1	O	3SB31 10-5MD01		0.131	1
		BKS S 1	O	3SB31 10-5BD01		0.126	1

For contact block position chart, see page 10/65.

For contact blocks and lamp holders, see pages 10/60-10/63.

For insert labels and back plates, see pages 10/66-10/69.

For other accessories, see pages 10/70-10/74.

1) Also available without holder. When ordering, append “-Z” to the order number and specify code “B01”.



2) In accordance with FIAT car company standards, can also be used by other users.

Pushbutton Units and Indicator Lights

SIRIUS Plastic 3SB3, □ Square Design, 26 mm x 26 mm


EMERGENCY-STOP mushroom pushbuttons

Selection and ordering data

Version	Color of actuator, key withdrawable in position	Order No.	List Price \$ 1 unit	Weight approx. kg	Pack Unit
EMERGENCY-STOP command devices according to EN 418, including holder¹⁾ 2), can also be used with 3TK28 contactor safety relays (see Section 13)					
EMERGENCY-STOP mushroom pushbutton 	Mushroom pushbutton, Ø 40 mm, with positive latching unlatching when turned to the left	red	3SB31 10-1HA20	0.044	1
	Mushroom pushbutton, Ø 40 mm, with positive latching function, with RONIS lock Lock No. SB 30, supplied with 2 keys, unlatching only by using the key	red ON/OFF	3SB31 10-1BA20	0.12	1
EMERGENCY-STOP mushroom pushbutton with lock 	Mushroom pushbutton, Ø 40 mm, with positive latching function, with CES lock Lock No. SSG 10, supplied with 2 keys, unlatching only by using the key	red ON/OFF	3SB31 10-1KA20	0.12	1
	Mushroom pushbutton, Ø 40 mm, with positive latching function, with BKS lock Lock No. S1, supplied with 2 keys, unlatching only by using the key	red ON/OFF	3SB31 10-1LA20	0.12	1
	Mushroom pushbutton, Ø 40 mm, with positive latching function, with O.M.R. lock Lock No. 73037, supplied with 2 keys, unlatching only by using the key	red ON/OFF	3SB31 10-1MA20	0.12	1

Indicator lights

Selection and ordering data

Version	Color of lens	Order No.	List Price \$ 1 unit	Weight approx. kg	Pack Unit
<i>including holder¹⁾</i>					
Indicator light 	Indicator light red yellow green blue white clear	3SB31 11-6AA20 3SB31 11-6AA30 3SB31 11-6AA40 3SB31 11-6AA50 3SB31 11-6AA60 3SB31 11-6AA70		0.017	1

For contact blocks and lamp holders, see pages 10/60-10/63.
For insert labels and back plates, see pages 10/66-10/69.

For other accessories, see pages 10/70-10/74.

1) Also available without holder. When ordering, append “-Z” to the order number and specify code “B01”.



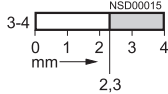

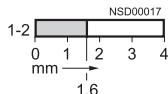


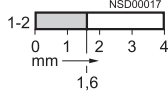



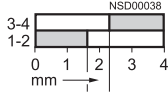

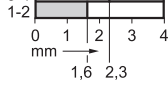

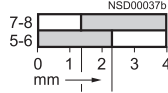

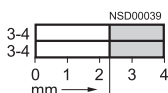

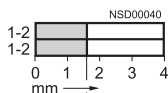

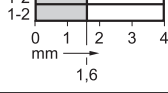


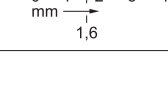



2) The yellow backing plate must be ordered separately; see page 10/71.

Pushbutton Units and Indicator Lights

SIRIUS Plastic 3SB3, □ Square Design, 26 mm x 26 mm

Contact blocks and lampholders

Selection and ordering data

Version	Symbols/ LED color	Contact travel contact closed contact open	Order No.	List Price \$	Weight approx.	Packs
				1 unit	kg	Unit
with screw terminals, for front plate mounting						
Contact block with 1 contact 	Contact block with one contact mounting depth 50 mm					
	1 NO			3SB34 00-0B 3SB34 00-0BA	0.01	20
	1 NO with gold-plated contacts			3SB34 00-0C 3SB34 00-0CA	0.01	20
	Contact block with one monitoring contact¹⁾ mounting depth 63 mm					
	1 NC 			3SB34 00-0M	0.018	20
Contact block with 2 contacts 	Contact blocks with 2 contacts mounting depth 65 mm (incl. device identification label)					
	1 NO + 1 NC 			3SB34 00-0A 3SB34 00-0AA	0.019	10
	1 NO + 1 NC with gold-plated contacts			3SB34 00-0H	0.016	10
	1 NO leading + 1 NC lagging			3SB34 00-0HA		
	1 NO leading + 1 NC delayed with gold- plated contacts			3SB34 00-0D 3SB34 00-0DA	0.019	10
	2 NO			3SB34 00-0E 3SB34 00-0EA	0.019	10
2 NO with gold-plated contacts						
2 NC 						
2 NC with gold- plated contacts						
Lampholder with integrated LED 	Lampholder with integrated LED					
	24 V AC/DC	yellow red green blue white		3SB34 00-1PA 3SB34 00-1PB 3SB34 00-1PC 3SB34 00-1PD 3SB34 00-1PE	0.01	10
	110 V AC	yellow red green blue white		3SB34 00-1QA 3SB34 00-1QB 3SB34 00-1QC 3SB34 00-1QD 3SB34 00-1QE	0.01	10
	230 V AC	yellow red green blue white		3SB34 00-1RA 3SB34 00-1RB 3SB34 00-1RC 3SB34 00-1RD 3SB34 00-1RE	0.01	10

 Positive opening to IEC 60 947-5-1, Appendix K, and DIN VDE 0660 Part 200.


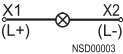
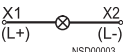
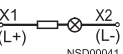

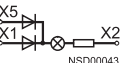
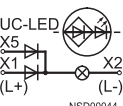
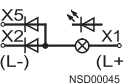
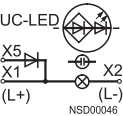
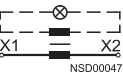
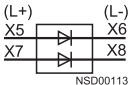
1) The NC contact opens automatically upon disconnection of the actuator.
On delivery, the contact is open (= safe state).
Activation (= NC contacts on the non-actuated control device are closed) takes place upon first-time actuation after the contact block is snapped onto the actuator.

Pushbutton Units and Indicator Lights

SIRIUS 3SB3, ○□ Round and Square Design

Contact blocks and lampholders

Selection and ordering data

Version	Symbols	Order No.	List Price \$ 1 unit	Weight approx. kg	Packs Unit
with screw terminals, for front plate mounting					
 <p>Lampholder</p>	Lampholders, BA9s mounting depth 50 mm without lamp 	3SB34 00-1A		0.013	20
	Operational voltage 24 V AC/DC with 24 V incandescent lamp (3SX1 344) ¹⁾ 	3SB34 00-1D		0.018	10
	Lampholders BA9s Operational voltage 110/130 V AC with built-in resistor for longer endurance and 130 V lamp (3SX1 731) ¹⁾ 	3SB34 00-1B		0.025	10
	Operational voltage 230/240 V AC with built-in voltage reducer and 130 V lamp (3SX1 731) ¹⁾ 	3SB34 00-1C		0.025	10
	Lampholders, BA9s with separate lamp test function²⁾ With integrated voltage reducer and with 130 V lamp (3SX1 731) ¹⁾ Operational voltage 230/240 V AC 	3SB34 00-1F		0.025	1
	Without lamp for incandescent lamps, max. 2.6 W and for LED lamps, AC/DC Operational voltage depending on lamp (24/48/230 V AC/DC) ³⁾ 	3SB34 00-1G		0.025	1
	Without lamp for incandescent lamps, max. 2.6 W and for LED lamps, AC or DC ⁴⁾ Operational voltage depending on lamp 	3SB34 00-1L		0.025	1
	Without lamp for incandescent lamps, max. 2.6 W, for glow lamp AC 	3SB34 00-1H		0.025	1
	Transformer for snap-on mounting on 3SB34 00-1A lampholder (lampholder not included) for incandescent lamp, 2W, AC: 	3SB34 00-3A 3SB34 00-3C 3SB34 00-3E 3SB34 00-3F 3SB34 00-3M 3SB34 00-3P 3SB34 00-3S 3SB34 00-3U 3SB34 00-3W		0.09	1
	Block with 2 diodes Type 1N 4007 	3SB34 00-2A		0.015	1

For example of circuits, see page 10/95

Transformer



1) The lamp is included.

2) The lampholder with separate lamp test function can not be installed in an enclosure.

3) Not suitable for LEDs which are suitable only for AC or DC.




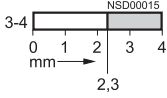

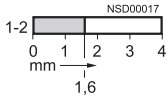

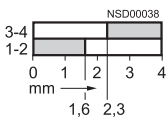

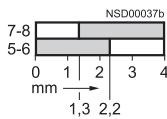

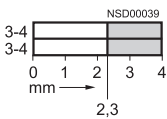

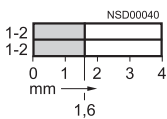
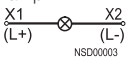


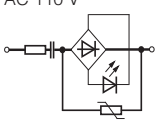
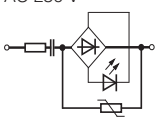
4) Not suitable for LED for 24/48/230 V AC/DC. For connecting to DC, X5 must be connected to L-.

Pushbutton Units and Indicator Lights

SIRIUS 3SB3, ○□ Round and Square Design

Contact blocks and lampholders

Selection and ordering data

Version	Symbols	Contact travel	DT	Order No.	List Price \$	Weight approx.	PS*
		 contact closed  contact open			1 unit	kg	Unit
Switch blocks with spring-loaded terminals, for front panel mounting							
Switch block with 1 contact, 50 mm mounting depth, grid 30 mm x 30 mm							
1 NO			B	3SB34 03-0B 3SB34 03-0BA		0.008	1
1 NO with gold-plated contacts							
1 NC			B	3SB34 03-0C 3SB34 03-0CA		0.008	1
1 NC with gold-plated contacts							
Switch block with 2 contacts, 65 mm mounting depth							
1 NO + 1 NC			B	3SB34 03-0A 3SB34 03-0AA		0.008	1
1 NO + 1 NC with gold-plated contacts							
1 NO leading + 1 NC delayed			B	3SB34 03-0H 3SB34 03-0HA		0.008	1
1 NO leading + 1 NC delayed with gold-plated contacts							
2 NO			B	3SB34 03-0D 3SB34 03-0DA		0.008	1
2 NO with gold-plated contacts							
2 NC			B	3SB34 03-0E 3SB34 03-0EA		0.008	1
2 NC with gold-plated contacts							
BA 9s lampholder, 50 mm mounting depth, 30 mm x 30 mm grid according to lamp							
without lamp			B	3SB34 03-1A		0.008	1
with integrated voltage reducer and with 130 V lamp (3SX1 731) ¹⁾			B	3SB34 03-1C		0.010	1
Lampholder with integrated LED, 50 mm mounting depth, 30 mm x 30 mm grid							
AC/DC 24 V		yellow red green blue white	B	3SB34 03-1PA 3SB34 03-1PB 3SB34 03-1PC 3SB34 03-1PD 3SB34 03-1PE		0.010	1
AC 110 V		yellow red green blue white	B	3SB34 03-1QA 3SB34 03-1QB 3SB34 03-1QC 3SB34 03-1QD 3SB34 03-1QE		0.010	1
AC 230 V		yellow red green blue white	B	3SB34 03-1RA 3SB34 03-1RB 3SB34 03-1RC 3SB34 03-1RD 3SB34 03-1RE		0.010	1

→ Positive opening according to IEC 60947-5-1, Appendix K.

1) Use these lamps only.

* This quantity or multiple thereof can be ordered

Pushbutton Units and Indicator Lights

SIRIUS 3SB3, ○□ Round and Square Design

Contact blocks and lampholders

Selection and ordering data

Version	Symbols	Contact travel	Order No.	List Price \$	Weight approx.	PS
				1 unit	kg	Unit
with screw or cage clamp terminal connection, for front panel mounting						
Adapters for pushbutton units 	Adapters for push-buttons ¹⁾ for snap-on fitting of 3 elements	-	3SB39 01-0AB		0.001	20
Adapters for selector switches, key-operated switches and double pushbuttons 	Adapters for selector switches, key-operated switches and double pushbuttons with pressure plates for actuating the central contact block	-	3SB39 01-0AC		0.001	10
with solder pins, for use on printed-circuit boards, mounting depth 44 mm						
Contact block w. solder pins 	Contact blocks with 1 contact					
	1 NO			3SB34 11-0B	0.002	20
	1 NC			3SB34 11-0C		
Lampholder w. solder pins 	Lampholders wedge base W2 × 4.6 d, without lamp		3SB34 11-1A		0.002	20
Pressure plates 	Pressure plates for selector switches and key-op. switches for actuating the central contact block (also for contact blocks with base mounting)	-	3SB39 01-0AW		0.001	10
PCB holder 	PCB holder for mounting the command devices with the printed-circuit board (screw supplied)	-	3SB39 01-0AA		0.001	10

Positive opening to IEC 60 947-5-1, Appendix K, and DIN VDE 0660 Part 200.

1) Holders are also available for pushbutton switches.

Pushbutton Units and Indicator Lights

SIRIUS 3SB3, ○□ Round and Square Design

Key operated switches

Options

Special locks for key-operated switches

Special Locks Number ¹⁾	Catalog Number
CES SSP 9	3SB3__-1KA20 -ZY02
BKS E2, E7, E9	3SB3__-1LA20 -ZY02
SSG11-SSG15	3SB3__-4LD__ -ZY02
	3SB3__-4MD__ -ZY02
	3SB3__-4PD__ -ZY02
	3SB3__-4QD__ -ZY02
	3SB3__-4RD__ -ZY02
	3SB3__-4SD__ -ZY02
EA, E2, E7, E9	3SB3__-5AD__ -ZY02
	3SB3__-5BD__ -ZY02
	3SB3__-5DD01 -ZY02
	3SB3__-5DD11 -ZY02
	3SB3__-5DD41 -ZY02
	3SB3__-5ED__ -ZY02
	3SB3__-5FD01 -ZY02
	3SB3__-5GD01 -ZY02
	3SB3__-5FD51 -ZY02
E9	3SB3__-5FD51 -ZY02

Special Locks Listed in Above Table

Estimated delivery time

For special locks that are listed in the table above, the normal delivery time is 15-17 working days.

Ordering information

The Order No. of the relevant switch must be supplemented with “_ZY02” and the required lock number. For all special locks, a price supplement applies.

Ordering example

3SB30 00_4LD01_ZY02
Z = SSG11

Special Locks Listed in Above Table

Estimated delivery time

For special locks that are not listed in the above table, the normal delivery time is 25 working days.

Ordering information

The Order No. of the relevant switch must be supplemented with “_ZY01” and the required lock number. For all special locks, a price supplement applies.

Ordering example

3SB30 00_4LD01_ZY01
Z = SSG18

Versions

For applications in which access security is important and several lock numbers are used, we recommend the use of BKS, CES or IKON key-operated switches.

Master and master-pass key systems

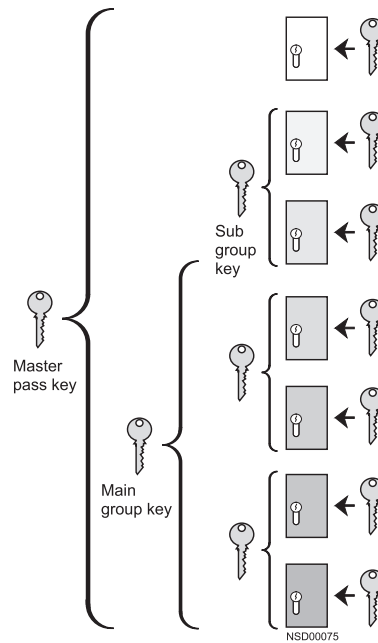
Available key systems

The following key systems can be supplied with BKS, CES, IKON and O.M.R. key-operated switches:

- central lock systems
- master key systems
- central master key systems
- master-pass key systems

Ordering information

Please contact Siemens sales engineer to enquire for price, delivery time, and specific ordering instructions.



Example of master-pass key system.

1) Special locks for VW (E1, E2, ...) will be delivered without keys, all others will be delivered with 2 keys.

Pushbutton Units and Indicator Lights

SIRIUS 3SB3, ○□ Round and Square Design

Contact block position for selector switches & 3-position push-pull

Selection and ordering data

Switch Position (front of switch)	Circuit	Contact Block	Block Position ¹⁾²⁾
--------------------------------------	---------	---------------	--------------------------------

Two-Position Selector Contact Block Selection

	1 NO	3SB34 00-0B	Any Position
	1 NC	3SB34 00-0C	Any Position
	1 NO/1 NC	3SB34 00-0A	Any Position
	2 NO	3SB34 00-0D	Any Position
	2 NC	3SB34 00-0E	Any Position

Three-Position Selector Contact Block Selection

	1 NO	3SB34 00-0B	1 or 2A
	1 NO	3SB34 00-0B	2
	1 NO	3SB34 00-0B	3 or 2B
	1 NC	3SB34 00-0C	1 or 2A
	1 NC	3SB34 00-0C	2
	1 NC	3SB34 00-0C	3 or 2B
	1 NO/1 NC	3SB34 00-0A	1 or 2A
	1 NO/1 NC	3SB34 00-0A	2
	1 NO/1 NC	3SB34 00-0A	3 or 2B
	2 NO	3SB34 00-0D	1 or 2A
	2 NO	3SB34 00-0D	2
	2 NO	3SB34 00-0D	3 or 2B
	2 NC	3SB34 00-0E	1 or 2A
	2 NC	3SB34 00-0E	2
	2 NC	3SB34 00-0E	3 or 2B

Three-Position Push-Pull Contact Block Selection

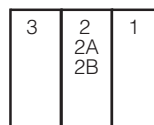
Out	Center	In	Circuit	Contact Block	Block Position
X	O	O	1 NO	3SB34 00-0B	1 or 2A
O	O	X	1 NO	3SB34 00-0B	3 or 2B
X	X	O	1 NC	3SB34 00-0C	3 or 2B
O	X	X	1 NC	3SB34 00-0C	1 or 2A
O	X	X	1 NO/1 NC	3SB34 00-0A	1 or 2A
X	X	O	1 NO/1 NC	3SB34 00-0A	3 or 2B
O	X	O	1 NO/1 NC	3SB34 00-0A	2
X	O	X	1 NO/1 NC	3SB34 00-0A	2

Rear View of Switch



Operator without Contact Block Carrier

For Mounting Contacts Directly to Operator



Operator with Contact block carrier

For Mounting Contacts with Carrier

X — Contact Closed
 O — Contact Open
 2 — Both Pushers Inserted
 2A — Left Pusher Inserted
 2B — Right Pusher Inserted



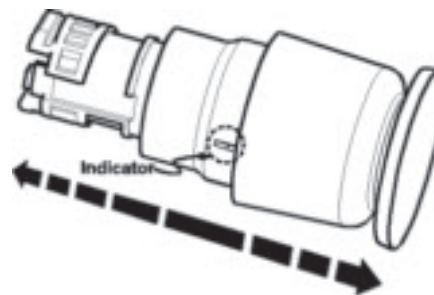
3SB39 01-0AC for operating center position. Shown with both pushers inserted (Sold separately)



3SB39 01-0AB included with illuminated devices

Orienting 3-Position Push-Pull Devices

1. Pull the operator to the out position and locate the device orientation mark.
2. With the mark located, insert into panel with the mark on the left side of the device as you face the panel.



1) Positions 2, 2A and 2B cannot be used on illuminated selector switches. Position is occupied by lamp module.

2) For illuminated transformer-type devices, an extra-deep lampholder is required when using two-element contact blocks.

Pushbutton Units and Indicator Lights

SIRIUS 3SB3, ○□ Round and Square Design

Laser inscription of operators and indicator elements

Design

Actuating and signaling elements in plastic and metal design can be optionally inscribed with a laser.

The following can be inscribed:

- pushbutton actuators (illum & non-illum)
- mushroom pushbutton actuators (illum & non-illum)
- indicator light lens
- selector switch front ring



Order information

Append the order number with one of the codes listed below and the inscription information.

-ZY10 1st letter of each line capitalized

-ZY11 All upper-case lettering

-ZY11 All lower-case lettering

-ZY13 Graphic symbols with IEC or ISO number

-ZY19 Text according to order form OR symbol by providing a .DXF file

Note: If multiple lines of text are being used, identify the line by using Z1, Z2 or Z3.

Ordering example

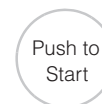
3SB3110-0AA31-ZY13
Z=5389 IEC



3SB3110-0AA31-ZY11
Z=pump



3SB3110-0AA31-ZY10
Z1=push to
Z2=start



Text restrictions and size

Round:

- 1 Line: 10 characters max (4mm high)
- 2 Lines: 8 characters max per line (3mm high)
- 3 Lines: 6 characters max for lines 1 & 3,
10 characters max for line 2 (3mm high)

Square:

- 1 Line: 10 characters max (4mm high)
- 2 or 3 Lines: 10 characters per line (3mm high)

Inscription examples



Single-line inscription in capital letters



Three-line inscription in lower-case letters



Inscription according to order form



Two-line inscription in Upper-/lower-case lettering



Inscription with No. 19 to DIN Report 4

Pushbutton Units and Indicator Lights

SIRIUS 3SB3, ○□ Round and Square Design

Insert labels

Design

Pushbuttons (clear) and illuminated pushbuttons with a flat button can be fitted with insert labels for identification purposes.





These labels are made of clear transparent molded plastic with black lettering and can be mounted in any 90° position.

Inscription

The insert labels without lettering are suitable for user marking with permanent pen.

The inscription (and the special inscription) has capital initial letters.

Selection and ordering data

Inscription			Insert labels for pushbuttons (clear) and illuminated push-buttons (flat)		Insert labels for pushbuttons (clear) and illuminated push-buttons (flat)		Packs
			Round design		Square design		
			Order No.	List Price \$ 1 unit	Order No.	List Price \$ 1 unit	Unit
Without inscription			3SB19 01-4AS		3SB39 40-4AA		10
On			3SB19 01-4EB		3SB39 40-4EB		10
Off			3SB19 01-4EC		3SB39 40-4EC		
Up			3SB19 01-4ED		3SB39 40-4ED		
Down			3SB19 01-4EE		3SB39 40-4EE		
Forward			3SB19 01-4EF		3SB39 40-4EF		10
Reverse			3SB19 01-4EG		3SB39 40-4EG		
Right			3SB19 01-4EH		-		
Links			3SB19 01-4AJ		3SB39 40-4AJ		
Left			3SB19 01-4EJ		-		
Open			3SB19 01-4EP		-		10
Close			3SB19 01-4EQ		-		
Fast			3SB19 01-4ER		-		
Slow			3SB19 01-4ES		-		
Running			3SB19 01-4EV		3SB39 40-4EV		10
Fault			3SB19 01-4EW		3SB39 40-4EW		
Reset			3SB19 01-4EM		3SB39 40-4EM		
Test			3SB19 01-4EN		-		
Start			3SB19 01-4EK		3SB39 40-4EK		
Stop			3SB19 01-4EL		3SB39 40-4EL		
Symbol	Significance	Symbol Number					
○	Off	5008 IEC	3SB19 01-4MB		3SB39 40-4MB		10
	On	5007 IEC	3SB19 01-4MC		3SB39 40-4MC		
	-	-	3SB19 01-4MD		3SB39 40-4MD		
Equipment symbols							
	Electric motor	0011 ISO	3SB19 01-4PA		3SB39 40-4PA		10
Motion symbols							
	Motion in direction of arrow	5022 IEC	3SB19 01-4NA		3SB39 40-4NA		10
	Increase, plus	5005 IEC	3SB19 01-4NG		3SB39 40-4NG		
	Decrease, minus	5006 IEC	3SB19 01-4MC		3SB39 40-4MC		
Custom Symbol Inscription							
Acc. to IEC or ISO			3SB19 01-4AZK3Y		3SB39 40-4AZK3Y		
- Symbol Number must be included with order number using the following format: Z = Symbol # (Ex: Z = 0096 ISO)							
Acc. to order			3SB19 01-4AZK9Y		3SB39 40-4AZK9Y		
- A CAD file (.DXF format) must be provided with order. Please submit file along with the following Z = Please inscribe acc. to file_name.DXF							
Custom Text Inscriptions							
- See text restrictions and sizing on page 10/66							
- Inscription must be submitted with order using the Z = Inscribed text. Use "Z1=", "Z2=", and "Z3=" for lines 1, 2 and 3, respectively. (Ex: Z1 = Push, Z2 = to start)							
Capital initial letters			3SB19 01-4AZK0Y		3SB39 40-4AZK0Y		
Capital letters			3SB19 01-4AZK1Y		3SB39 40-4AZK1Y		
Lower-case letters			3SB19 01-4AZK2Y		3SB39 40-4AZK2Y		
Acc. to order			3SB19 01-4AZK9Y		3SB39 40-4AZK9Y		
(Capitalization will appear exactly as provided)							

Pushbutton Units and Indicator Lights

SIRIUS 3SB3, ○□ Round and Square Design

Backing plates

Design

The backing plates consist of a black molded plastic holder and an inscription plate (black with white print¹⁾). Adhesive or snap-on mounting. They are not suitable for EMERGENCY-STOP mushroom pushbuttons.

Note insert dimensions!

Inscription

The inscription (and the special inscription) has capital initial letters.

Self-adhesive plates

The inscription plates are self-adhesive. There are 2 sizes available for the round and square design:

- 30 mm × 45 mm plate holders with 12.5 mm × 27 mm inscription plate.
- 30 mm × 60 mm plate holders with 27 mm × 27 mm inscription plate.

Snap-on plates

The following variants are available for the round range: 29.8 mm × 51 mm plate holders with 17.5 mm × 28 mm inscription plate (17.5 mm × 27 mm inscription field).

Selection and ordering data

Inscription	Self-adhesive inscription plate ¹⁾				Inscription plate for snap-on mounting ¹⁾ 17.5 mm × 28 mm	Packs	
	12.5 mm × 27 mm		27 mm × 27 mm				
	Order No.	List Price \$ 1 unit	Order No.	List Price \$ 1 unit	Order No.	List Price \$ 1 unit	Unit
Blank/Black	3SB39 02-1AA		3SB39 03-1AA		3SB39 05-1AA		10
Blank-silver	3SB19 01-2AA		–		–		10
Blank-red	3SB19 01-2XA		–		–		10
Emerg. Stop	3SB39 02-1AU		3SB39 03-1AU		–		10
Hand O Auto	3SB39 02-1BE		3SB39 03-1BE		–		10
Jog	3SB39 02-1BG		3SB39 03-1BG		–		10
Man O Auto	3SB39 02-1ET		3SB39 03-1ET		–		10
Power Off	3SB39 02-1BH		3SB39 03-1BH		–		10
Power On	3SB39 02-1BJ		3SB39 03-1BJ		–		10
Reset	3SB39 02-1EM		3SB39 03-1EM		–		10
Run	3SB39 02-1EX		3SB39 03-1EX		–		10
Forward	3SB39 02-1EF		3SB39 03-1EF		–		10
Reverse	3SB39 02-1EG		3SB39 03-1EG		–		10
Right	3SB39 02-1EH		3SB39 03-1EH		–		10
Left	3SB39 02-1EJ		3SB39 03-1EJ		–		10
On	3SB39 02-1EB		3SB39 03-1EB		–		10
Off	3SB39 02-1EC		3SB39 03-1EC		–		10
Up	3SB39 02-1ED		3SB39 03-1ED		–		10
Down	3SB39 02-1EE		3SB39 03-1EE		–		10
Open	3SB39 02-1EP		3SB39 03-1EP		–		10
Close	3SB39 02-1EQ		3SB39 03-1EQ		–		10
Fault	3SB39 02-1EW		–		–		10
Test	3SB39 02-1EN		3SB39 03-1EN		–		10
Start	3SB39 02-1EL		3SB39 03-1EL		3SB39 05-1EL		10
Stop	3SB39 02-1EK		3SB39 03-1EK		3SB39 05-1EK		10
Stop Start	3SB39 02-1BC		3SB39 03-1BC		3SB39 05-1BC		10
Hand Auto	3SB39 02-1BA		3SB39 03-1BA		3SB39 05-1BA		10
Man Auto	3SB39 02-1EU		3SB39 03-1EU		–		10
Off On	3SB39 02-1EA		3SB39 03-1EA		–		10
Symbols							
O	3SB39 02-1MB		–		–		10
I	3SB39 02-1MC		–		–		10
O-I	3SB39 02-1MF		3SB39 03-1MF		3SB39 05-1MF		10
1 2	3SB39 02-1ML		–		–		10
→	3SB39 02-1NA		3SB39 03-1NA		3SB39 05-1NA		10
↑	3SB39 02-1NJ		–		3SB39 05-1NJ		10

1) The inscription plates from the 3SB1 range (silver with black lettering) can also be used.

Pushbutton Units and Indicator Lights

SIRIUS 3SB3, ○□ Round and Square Design

Backing plates

Selection and ordering data

	Self-adhesive inscription plate ¹⁾		27 mm x 27 mm		Inscription plate for snap-on mounting ¹⁾		Pack
	12.5 mm x 27 mm		17.5 mm x 28 mm				
	Order No.	List Price \$	Order No.	List Price \$	Order No.	List Price \$	
Custom Symbol Inscription Acc. to IEC or ISO - Symbol Number must be included with order number using the following format: Z = Symbol # (Ex: Z = 0096 ISO)	3SB39 02-1XZK3Y		3SB39 03-1XZK3Y		3SB39 05-1XZK3Y		10
Acc. to order - A CAD file (.DXF format) must be provided with order. Please submit file along with the following Z = Please inscribe acc. to file_name.DXF	3SB39 02-1XZK9Y		3SB39 03-1XZK9Y		3SB39 05-1XZK9Y		
Custom Text Incriptions - 10 characters per line - Number of lines / letter height vary by inscription plate - Inscription must be submitted with order using the following format: Z = Incribed text. Use Z1, Z2, ... , Z5 to indicate line 1, 2, ... 5, respectively. (Ex: Z1 = push, Z2 = to start, Z3 = machine)							10
Capital initial letters	3SB39 02-1XZK0Y		3SB39 03-1XZK0Y		3SB39 05-1XZK0Y		
Capital letters	3SB39 02-1XZK1Y		3SB39 03-1XZK1Y		3SB39 05-1XZK1Y		
Lower-case letters	3SB39 02-1XZK2Y		3SB39 03-1XZK2Y		3SB39 05-1XZK2Y		
Acc. to order (Capitalization will appear exactly as provided)	3SB39 02-1XZK9Y		3SB39 03-1XZK9Y		3SB39 05-1XZK9Y		

Ordering example

3SB39 02-1XZK0Y

Z1 = push
Z2 = to start
Z3 = machine

3SB39 03-1XZK9Y

Z1 = machine A

3SB39 05-1XZK3Y

Z1 = 5008 IEC

Inscription examples



Single-line inscription in capital letters



ISO 7000-0096



Two-line inscription in Upper/lower-case lettering



Inscription according to order form



Three-line inscription in lower-case letters

Selection and ordering data









Version	Plate holder for self-adhesive inscription plate		27 mm x 27 mm		Plate holder for snap-on inscription plate		PG	Packs
	12.5 mm x 27 mm		17.5 mm x 28 mm		17.5 mm x 28 mm			
	Order No.	List Price \$ 1 unit	Order No.	List Price \$ 1 unit	Order No.	List Price \$ 1 unit		Unit
Round program	3SB39 22-0AV		3SB39 23-0AV		3SB39 25-0AX		102	10
Square program	3SB39 42-0AX		3SB39 43-0AX		-		102	10
for potentiometer drive 3SB10 00-7CH07	3SB39 22-0AW		-		-		102	10

Pushbutton Units and Indicator Lights

SIRIUS 3SB3, ○□ Round and Square Design

Accessories and spare parts

Selection and ordering data

	Version	Color	Order No.	List Price \$ 1 unit	Packs Unit		
	Button, flat for round illuminated pushbuttons, plastic	red	3SB39 30-0CA2		10		
		yellow	3SB39 30-0CA3				
		green	3SB39 30-0CA4				
		blue	3SB39 30-0CA5				
		white	3SB39 30-0CA6				
		clear	3SB39 30-0CA7				
	Button, flat for square illuminated pushbuttons, plastic	red	3SB39 50-0CA2		10		
		yellow	3SB39 50-0CA3				
		green	3SB39 50-0CA4				
		blue	3SB39 50-0CA5				
		white	3SB39 50-0CA6				
		clear	3SB39 50-0CA7				
	Button, flat for round pushbuttons, metal	black	3SB39 30-0EA1		10		
		red	3SB39 30-0EA2				
		yellow	3SB39 30-0EA3				
		green	3SB39 30-0EA4				
		blue	3SB39 30-0EA5				
		white	3SB39 30-0EA6				
		clear	3SB39 30-0EA7				
	Button, extended for round illuminated pushbuttons, plastic	red	3SB39 30-0DA2				
		green	3SB39 30-0DA4				
		clear	3SB39 30-0DA7				
	Button, extended for round pushbuttons, metal	black	3SB39 30-0FA1		10		
		red	3SB39 30-0FA2				
		yellow	3SB39 30-0FA3				
		green	3SB39 30-0FA4				
		blue	3SB39 30-0FA5				
		white	3SB39 30-0FA6				
		clear	3SB39 30-0FA7				
		Button, flat¹⁾ for round illuminated pushbuttons, metal	red	3SB39 30-0GA2			10
	yellow		3SB39 30-0GA3				
	green		3SB39 30-0GA4				
	blue		3SB39 30-0GA5				
	white		3SB39 30-0GA6				
	clear		3SB39 30-0GA7				
	amber		3SB39 30-0GA0				
	Button, extended for round illuminated pushbuttons, metal		red	3SB39 30-0HA2		10	
			yellow	3SB39 30-0HA3			
			green	3SB39 30-0HA4			
		blue	3SB39 30-0HA5				
		white	3SB39 30-0HA6				
		clear	3SB39 30-0HA7				
		amber	3SB39 30-0HA0				
	Lenses, smooth for round indicator lights, plastic or metal	red	3SB39 30-6BA2		10		
		yellow	3SB39 30-6BA3				
		green	3SB39 30-6BA4				
		blue	3SB39 30-6BA5				
		white	3SB39 30-6BA6				
		clear	3SB39 30-6BA7				
		amber	3SB39 30-6BA0				
		Lenses, concentric rings for round indicator lights, plastic or metal	red	3SB39 30-6CA2			10
	yellow		3SB39 30-6CA3				
	green		3SB39 30-6CA4				
	blue		3SB39 30-6CA5				
	white		3SB39 30-6CA6				
	clear		3SB39 30-6CA7				
	amber		3SB39 30-6CA0				
	Lenses for square illuminated pushbuttons, plastic	red	3SB39 50-6AA2		10		
		yellow	3SB39 50-6AA3				
		green	3SB39 50-6AA4				
		blue	3SB39 50-6AA5				
		white	3SB39 50-6AA6				
		clear	3SB39 50-6AA7				
		amber	3SB39 50-6AA0				
	Mounting tool for pushbuttons and lenses, metal		3SB39 21-0BC		1		
  	Gear Holder for round design, plastic for square design, plastic for round design, metal		3SB39 31-0AA		10		
			3SB39 51-0AA		10		
			3SB39 31-0AC		10		
	Earthing screw for holder, metal		3SB39 21-0BD		1 pkg.		
	Bolt for enclosure Ring nut wrench		3SB39 31-0AB		1		
			3SX1707				











1) For solvent-resistant cap, add suffix-0PA0. These are not suitable for laser inscription.

Pushbutton Units and Indicator Lights

SIRIUS 3SB3, ○□ Round and Square Design

Accessories and spare parts

Selection and ordering data

Version	Suitable for	Color/ inscription	Order No.	List Price \$ 1 unit	Packs Unit
Keys for key-operated switches					
 Ronis key-operated switch, flat	SB 30		3SB39 10-4A		1
BKS key-operated switch	S 1		3SY1 066		1
CES key-operated switch	LSG 1 SSG 10 SSP 9		3SB19 10-2F 3SY1 054 3SY1 052		1
IKON key-operated switch	360012 K1		3SY1 053		1
O.M.R. key-operated switch	73038 73037 73034 73033	light blue red black yellow	3SB19 10-2L 3SB19 10-2M 3SB19 10-2N 3SB19 10-2P		1
Protective cap clear, silicone¹⁾ degree of protection IP 67					
 for round design, plastic	flat button raised button selector switch		3SB39 21-0AH 3SB19 02-0AK 3SB39 21-0BA		1
for square design, plastic	flat button		3SB39 41-0AH		1
for round design, metal	flat button raised button selector switch		3SB19 02-0AK 3SB19 02-0AN 3SB39 21-0BA		1
Protective cap clear, Elastolan¹⁾ degree of protection IP 67					
 for round design, plastic	flat button raised button		3SB39 21-0AJ 3SB39 21-0AM		1
for square design, plastic	flat button		3SB39 41-0AJ		1
for round design, metal	flat button		3SB39 21-0AM		1
Protective cap clear, silicone, degree of protection IP 67					
 for round design	Mushroom push-pull button, Ø 40 mm EMERGENCY-STOP mushroom pushbut- ton, Ø 40 mm		3SB19 02-2BH 3SB39 21-0BU		1
Dust cap for use in dusty environments					
 Key-operated switch			3SB39 21-0BT		1
Yellow backing plate, round, as backing plate for EMERGENCY-STOP, for round version, self-adhesive bore 23 mm, external diameter 80 mm					
 EMERGENCY-STOP	EMERGENCY-STOP mushroom pushbut- ton	blank	3SB39 21-0AB		1
		EMERGENCY- STOP	3SB39 21-0AD		
Yellow backing plate, round, as backing plate for EMERGENCY-STOP, for square version, self-adhesive External diameter 80 mm, cut-out 26 mm x 26 mm					
 EMERGENCY-STOP	EMERGENCY-STOP mushroom pushbut- ton	blank	3SB39 41-0AB		1
		EMERGENCY- STOP	3SB39 41-0AD		
Yellow backing plate, round, as backing plate for EMERGENCY-STOP, for round version, external diameter 75 mm, cut-out 22.5 mm					
 EMERGENCY-STOP	EMERGENCY-STOP mushroom pushbut- ton	blank	3SB19 02-2BA		1
Illuminated yellow backing plate, round, suitable as signaling device for EMER- GENCY-STOP, self-adhesive with plug-in connection for 24 V AC/DC ²⁾ external diameter 60 mm, bore 23 mm ³⁾					
 EMERGENCY-STOP	EMERGENCY-STOP mushroom pushbut- ton	blank	3SB39 21-0DA		
		EMERGENCY- STOP	3SB39 21-0DD		
Blanking plugs					
 for round version, metal ¹⁾		aluminized	3SB19 02-0AQ		10
for round design, plastic		black	3SB39 21-0AA		10
for square design, plastic		black	3SB39 41-0AA		10

1) Not to be used with plate holder.

2) For front panel thickness of max 4 mm.














3) The illuminated lab can also be operated through the AS-Interface F adapter.

Pushbutton Units and Indicator Lights

SIRIUS 3SB3, ○□ Round and Square Design

Accessories and spare parts

Selection and ordering data

Fig No.	Version	Suitable for	Color	Order No.	List Price \$ 1 unit	Weight approx. kg	Packs Unit
1	 Protective collar, yellow ¹⁾ for frontplate mounting, for round design	EMERGENCY- STOP mushroom pushbuttons		3SB39 21-0AK 3SB39 21-0AX		0.025	1
2	 Sun collar for round design	Pushbuttons and indicator lights	black	3SB39 21-0AS			1
3	 Sealable cap	Pushbuttons with flat button	black transparent	3SB19 02-0AL 3SB19 02-2AR			1
4	 Single frame for square design of the round version	Pushbuttons and indicator lights	black	3SB39 21-0AU			10
5	 Device designation Order No. and price per packet			3TX4 210-0H			100
	Adaptor consists of a metal disc with adhesive layer on one side. Mounting hole 30.5 mm, mounting as for 22 mm range	as thrust collars for frontplates of thin insulating material		3SB39 21-0AE			20
6	 Holder for printed-circuit board for mounting the actuation units with the PCB (screw supplied)	Soldering element		3SB39 01-0AA			10
7	 Hole drilling template for the 30 mm grid, horizontal, for round and square design			3SB19 02-2BG		0.01	1
7	 Hole punch, 26 mm x 26 mm, for square design			3SB39 41-0AF			1
8	 Adapters for pushbutton units ²⁾ for snap-on mounting of 3 elements	Pushbuttons with front plate fixing		3SB39 01-0AB		0.001	10
9	 Adapters for selector switches, key- operated switches and double pushbuttons with pressure plates for operation of the central contact block	Selector switches, key-operated switches and double pushbuttons with front panel mounting		3SB39 01-0AC		0.001	10
10	 Thrust pad for selector switches and key-operated switches with pressure plates for operation of the central contact block	Selector switches and key-oper- ated switches for use on PCB or with base mounting		3SB39 01-0AW		0.001	10
	Audible signal transducer for screw connection						
11	 Audible signal transducer, BA 9s base, operational voltage DC 24 – 28 V, operational current 25 mA, 0.6 W, min. sound pressure 80 dB/10 cm	Audible signal device ³⁾		3SB19 02-2BN		0.003	1
12	 Dust Cover			3SB39 21-0AY		0.07	10

1) The protective collar should be used only to protect against inadvertent operation and must be mounted so that easy operation is possible.

2) Holders also available for pushbutton switches, mushroom pushbuttons and push-pull buttons.






3) Note: With increased IP 65 protection use the audible signal device (complete units see page 10/39).

Pushbutton Units and Indicator Lights

SIRIUS 3SB3, ○□ Round and Square Design

Accessories and spare parts

Selection and ordering data

Fig No.	Version	Suitable for	Lamp voltage	Color	Order No.	List Price \$ 1 unit	Weight approx. kg	Packs Unit
Lamps with screw connection, BA 9s base								
	Incandescent lamps 1.2 W, max. length 28 mm, max. bulb diameter 10 mm Base BA 9s 2.5 W, max. length 28 mm, max. bulb diameter 10 mm	Illuminated pushbuttons and indicator lights	4 V		3SB19 02-0AY		0.005	1
			6 V #755		52AABN		0.005	1
			12 V #756 24 V #757 120V #120 MB		52AACN 52AADN1 52AAENC		0.005	1
	Incandescent lamp endurance 25,000 h, high vibration resistance 1.2 W Max. operat. current 50 mA AC/DC	Illuminated pushbuttons and indicator lights	24 V		3SB19 02-2BU		0.005	10
	LEDs, super-bright Base BA 9s length max. 28 mm, bulb diameter 10 mm, operational current 15 mA	Illuminated pushbuttons and indicator lights	6 V AC/DC	red	52AEB2	0.003	10	
			6 V AC/DC	green	52AEB3			
			6 V AC/DC	yellow	52AEB4			
			6 V AC/DC	white	52AEBB			
			6 V AC/DC	blue	52AEB5			
			24 V AC/DC	red	52AED2	0.003	10	
24 V AC/DC			green	52AED3				
24 V AC/DC			yellow	52AED4				
24 V AC/DC			white	52AEDB				
24 V AC/DC			blue	52AED5				
48 V AC/DC	red	3SB39 01-1CC	0.003	10				
48 V AC/DC	green	3SB39 01-1DC						
48 V AC/DC	yellow	3SB39 01-1BC						
48 V AC/DC	white	3SB39 01-1QC						
48 V AC/DC	blue	3SB39 01-1PC						
120 V AC/DC	red	52AEE2	0.003	10				
120 V AC/DC	green	52AEE3						
120 V AC/DC	yellow	52AEE4						
120 V AC/DC	white	52AEEB						
120 V AC/DC	blue	52AEE5						
LEDs Max. length 28 mm, bulb diameter 10 mm								
Operational current 15 mA	Illuminated pushbuttons and indicator lights	22 ... 32 V DC	red yellow green	3SB19 02-4AJ 3SB19 02-4BJ 3SB19 02-4CJ	0.005	10		
Blinking (1.4 Hz) 29 mA 27 mA 24 mA		24 V DC	red yellow green	3SB19 02-4LC 3SB19 02-4MC 3SB19 02-4NC	0.005	10		
Glow lamps²⁾ length 28 mm, bulb diameter 10 mm								
	Illuminated pushbuttons and indicator lights	AC 110 V AC 220 V AC 220 V	clear clear green	3SX1 703 3SX1 701 3SX1 702	0.005	10		
	Lamp extractor	Lamps with BA 9s bases	–	3SB19 02-2AD	0.002	1		
	Lamp adapter for fitting a wedge base into a BA 9s holder			3SB19 02-1AU	0.005	1		
Lamps for use on PCBs, wedge base								
	Incandescent lamps W2 x 4.6 d base, 1.0 W		6 V AC/DC		3SB29 08-1AA	0.003	10	
			12 V AC/DC		3SB29 08-1AB			
			24 V AC/DC		3SB29 08-1AC			
			30 V AC/DC		3SB29 08-1AD			
			48 V AC/DC		3SB29 08-1AE			
			60 V AC/DC		3SB29 08-1AF			
LEDs, super-bright W2 x 4.6 d base, operational current 10 mA			24 V DC	red	3SB39 01-1SB	0.003	10	
				yellow	3SB39 01-1RB			
				green	3SB39 01-1TB			
				white	3SB39 01-1UB			
				blue	3SB29 08-1BD			
	Lamp extractor	Lamps with base W2 x 4.6 d		3SB29 08-2AB	0.002	1		
		Contact block removal tool			3SB3901-OCB	0.03	1	
Contact removal tool for cage clamp				3SB3901-OCG	0.01	1		

1) Also for use for AC 230 V when used with a 3SB34 00-1C voltage reducer.

2) Due to the inherent orange color of glow lamps and their lower luminance level compared to incandescent lamps, it is recommended that they









should only be used with clear or red lenses and in areas where ambient light levels are not very high.

Pushbutton Units and Indicator Lights

SIRIUS 3SB3, ○□ Round and Square Design

Accessories and spare parts

Selection and ordering data

Fig No.	Version	Color	Order No.	List Price \$ 1 unit	Weight approx. kg	Packs Unit
Lockouts						
1			3SB39 21-0BS		0.06	1
1 Locking cover prevents access to pushbuttons, knob type selector switches and will work with both metal and plastic devices.						
2			3SB39 21-0BG		0.06	1
2 Lockout for metal flush pushbutton						
			3SB39 21-0BH		0.06	1
Lockout for metal extended pushbutton						
			3SB39 21-0BJ		0.06	1
Lockout for metal mushroom cap (40 mm) pushbutton						
3			3SB39 21-0BK 3SB39 21-0BL		0.06	1
3 2 Position Selector Switch Lockouts¹⁾ Lock in left position Lock in right position						
4			3SB39 21-0BM 3SB39 21-0BN 3SB39 21-0BP 3SB39 21-0BQ 3SB39 21-0BR		0.06	1
4 3 Position Selector Switch Lockouts¹⁾ Lock in left position Lock in center position Lock in right position Lock out -left position only Lock out -right position only						
Guards						
5			3SB39 21-0BE		0.05	1
5 Pushbutton Guard for standard pushbuttons, flush and extended. Also fits 30 mm mushroom head devices						
6			3SB39 21-0BF		0.05	1
6 Guard for 40 mm mushroom head devices standard momentary or 2 position push-pull						

1) For metal devices only.

Design



Enclosures

Enclosed pushbuttons and indicator lights are used as hand-operated control devices for separately allocated control units and cabinets.

Enclosures with handle are available for suspension (e. g. for crane control units).

The enclosed pushbuttons and indicator lights are available with conventional controls as well as for connection to the AS-Interface bus system.

The following versions are available:

- Enclosure with standard fittings with 1 to 3 command points
- Enclosure with customized equipment with 1 to 6 command points
- Empty enclosures (individual parts must be ordered separately)

Customer-specific enclosures

Enclosures with more than 6 command points can also be supplied with AS-Interface connection.

For AS-Interface enclosures see page 9/94.

Actuators

Round actuators and lens assemblies for a mounting diameter of 22 mm can be used. The operators are positioned through the hole in the cover of the enclosure and are connected to the supplied gear holder and secured in position.

Contact blocks and lampholders

Contact blocks and lampholders are snapped into the enclosure. For each pilot device, the following components can be installed:

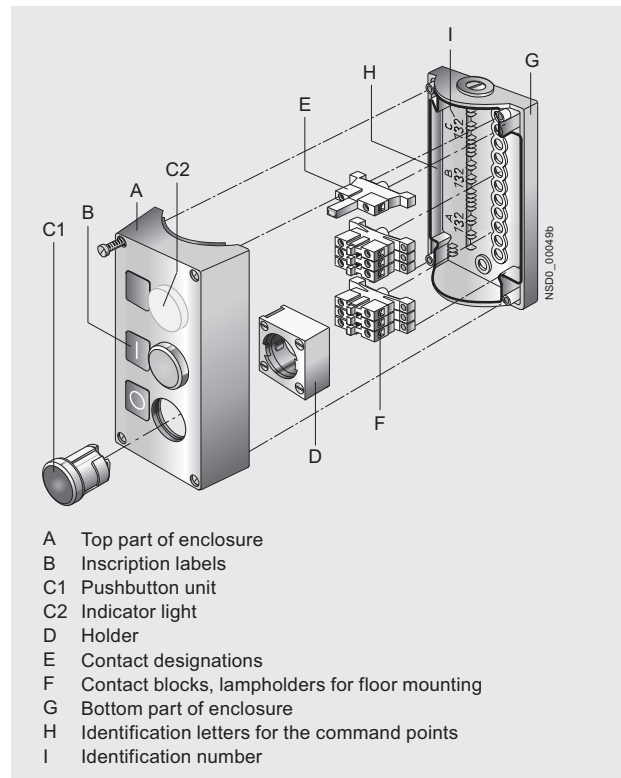
- 3 contacts blocks or
- 2 contact blocks + 1 lampholder or lampholder with integrated voltage reducer.

The contact blocks have moving double-break contacts ensuring high contact stability, i.e. they are also suitable for use in solid-state controls. Function numbering is shown on the contact block.

Application

The devices are climate-proof (KTW 24) according to DIN 50017 and suitable for stationary use (weather-protected).

Enclosures with standard fittings



- A Top part of enclosure
- B Inscription labels
- C1 Pushbutton unit
- C2 Indicator light
- D Holder
- E Contact designations
- F Contact blocks, lampholders for floor mounting
- G Bottom part of enclosure
- H Identification letters for the command points
- I Identification number

Standards

IEC 60947-5-1, EN 60947-5-1.

Plastic: IP65 NEMA 1, 3, 4, 4X, 12R

Metal: IP67 NEMA 4

Pushbuttons and Indicator Lights

SIRIUS 3SB3, ○ Round Design, 22 mm, Enclosed

Enclosures with standard operators

Overview

Enclosures with 1 to 3 pilot devices, operating voltage up to 400 V, vertical mounting type.

The operator/indicator is fixed with an enclosure nut. If required it can be disassembled with a 27 mm socket wrench or with a 3SX17 07 ring nut wrench.

Assemblies include base contact blocks (snapped into the base of the enclosure) mounting.

Molded-plastic enclosures are equipped with pilot devices made of plastic; metal enclosures are equipped with actuators and indicators made of metal.

Color of cover of enclosure:

- Grey, RAL 7035, or
- Yellow, RAL 1004

Color of the base of the enclosure:



- Black, RAL 9005

Selection and ordering data

Operator Identification	Contact block function	Number of pilot devices	Molded-plastic enclosure	List Price \$	Approx. weight	Packs	Metal enclosure	List Price \$	Approx. weight.	Packs
			Order No.	1 unit	kg	Unit	Order No.	1 unit	kg	Unit

Enclosures with standard operators

Cable entry top and bottom per 1 × M20

	A = Pushbutton green, label "I"	1 NO	1	3SB38 01-ODA3	0.209	1	3SB38 01-2DA3	on req.	1
	A = Pushbutton red, label "O"	1 NC	1	3SB38 01-ODB3	0.209	1	3SB38 01-2DB3	on req.	1
	A = Pushbutton white label "I"	1 NO	1	3SB38 01-ODD3	0.205	1	3SB38 01-2DD3	on req.	1
	A = Pushbutton black label "O"	1 NC	1	3SB38 01-ODE3	0.205	1	3SB38 01-2DE3	on req.	1
	A = EMERGENCY-STOP mushroom pushbuttons, Ø 40 mm, with positive latching according to ISD 13850 and rotate-to-unlatch mechanism	1 NC	1	3SB38 01-ODG3	0.242	1	3SB38 01-2DG3	on req.	1
	With yellow top part	1 NC	1	3SB38 01-ODG3	0.242	1	3SB38 01-2DG3	on req.	1
	without protective collar	2 NC	1	3SB38 01-OEG3	0.242	1	3SB38 01-2EG3	on req.	1
	With yellow top part with protective collar ¹⁾	1 NC	1	3SB38 01-ODF3	0.261	1	3SB38 01-2DF3	on req.	1
		2 NC	1	3SB38 01-OEF3	0.261	1	3SB38 01-2EF3	on req.	1
	B = Green pushbutton, label "I", A = Red pushbutton, label "O"	1 NO, 1 NC	2	3SB38 02-ODA3	0.261	1	3SB38 02-2DA3	on req.	1
	B = White pushbutton, label "I", A = Black pushbutton, label "O"	1 NO, 1 NC	2	3SB38 02-ODB3	0.260	1	3SB38 02-2DB3	on req.	1
	C = Clear indicator light, label without inscription, B = Green pushbutton, label "I", A = White pushbutton, label "O"	BA 9s, 1 NO, 1 NC	3	3SB38 03-ODA3	0.329	1	3SB38 03-2DA3	on req.	1
	C = Black pushbutton, label "I", B = Black pushbutton, label "I", A = Red pushbutton, label "O"	1 NO, 1 NO, 1 NC	3	3SB38 03-ODB3	0.324	1	3SB38 03-2DB3	on req.	1
	C = Clear indicator light, label without inscription, B = White pushbutton, label "I", A = Black pushbutton, label "O"	BA 9s, 1 NO, 1 NC	3	3SB38 03-ODC3	0.350	1	3SB38 03-2DC3	on req.	1

1) The shroud can only be used to protect against inadvertent actuation and must be installed to allow unimpeded access to the EMERGENCY-STOP mushroom pushbutton.

* This quantity or a multiple thereof can be ordered

Pushbuttons and Indicator Lights

SIRIUS 3SB3, ○ Round Design, 22mm, Enclosed

Empty enclosures and command points



Selection and ordering data

Version	Number of holes	Molded-plastic enclosure	List Price \$	Approx. weight	Packs	Metal enclosure	List Price \$	Approx. weight	Packs
		Order No.	1 unit	kg	Unit	Order No.	1 unit	kg	Unit

Empty enclosures

Cable entry top and bottom
 each 1 × M20 for 1 to 3 command points,
 each 1 × M25 for 4 and 6 command points



for contact blocks, lampholders and accessories with snap-on base mounting, also 1-pole operator mounted elements can be used (switching state remains on opening)	1	3SB38 01-0AA3		0.185	1	3SB38 01-2AA3		on req.	1
	2	3SB38 02-0AA3		0.214	1	3SB38 02-2AA3		on req.	1
	3	3SB38 03-0AA3		0.258	1	3SB38 03-2AA3		on req.	1
	4	3SB38 04-0AA3		0.301	1	3SB38 04-2AA3		on req.	1
	6	3SB38 06-0AA3		0.415	1	3SB38 06-2AA3		on req.	1

for EMERGENCY-STOP, for contact blocks, lampholders and accessories with snap-on base mounting, also 1-pole operator mounted elements can be used (switching state remains on opening)

with yellow top part, without shroud	1	3SB38 01-0AB3		0.185	1	3SB38 01-2AB3		on req.	1
with yellow top part, with shroud ¹⁾	1	3SB38 01-0AD3		0.213	1	3SB38 01-2AD3		on req.	1

1) The shroud can only be used to protect against inadvertent actuating and must be fitted to allow unimpeded access to the EMERGENCY-STOP mushroom pushbutton.

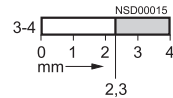
Version	Rated voltage/graphic symbol	Color/contact travel	Order No.	List Price \$	Approx. weight	Packs
				1 unit	kg	Unit

Contact blocks with screw connection, for base mounting



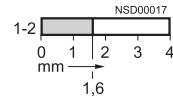
Switch block with one contact

1 NO
 1 NO (gold-plated)



3SB34 20-0B		0.012	1
3SB34 20-0BA			

1 NC →
 1 NC (gold-plated) →

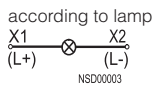


3SB34 20-0C		0.013	1
3SB34 20-0CA			



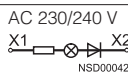
BA 9s lampholder

without lamp



3SB34 20-1A		0.012	1
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with integrated voltage reducer and with 130 V lamp (3SX1 731)¹⁾



3SB34 20-1C		0.016	1
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→ Positive opening according to IEC 60947-5-1, Appendix K.

1) Only use with this lamp.

* This quantity or a multiple thereof can be ordered

Pushbuttons and Indicator Lights

SIRIUS 3SB3, ○ Round Design, 22 mm, Enclosed

Contact blocks and lampholders

Version	Rated voltage/ graphical symbols	Color/ contact travel	Order No.	List Price \$	Weight per PU, approx.	Packs	
				1 unit	kg	Unit	
Contact blocks with screw connection, for base mounting							
Lampholder with integrated LED	AC/DC 24 V	yellow red green blue white	3SB34 20-1PA 3SB34 20-1PB 3SB34 20-1PC 3SB34 20-1PD 3SB34 20-1PE		0.011	1	
					0.011	1	
	AC 110 V	yellow red green blue white	3SB34 20-1QA 3SB34 20-1QB 3SB34 20-1QC 3SB34 20-1QD 3SB34 20-1QE		0.012	1	
					0.012	1	
	AC 230 V	yellow red green blue white	3SB34 20-1RA 3SB34 20-1RB 3SB34 20-1RC 3SB34 20-1RD 3SB34 20-1RE		0.012	1	
					0.012	1	
	Support terminal		black blue green/yellow	3SB39 01-0AG 3SB39 01-0AH 3SB39 01-0AJ		0.012	1
						0.012	1
						0.012	1
						0.012	1
						0.012	1
						0.012	1
Contact blocks with spring-loaded terminals, for base mounting							
Contact block with one contact	1 NO			3SB34 23-0B 3SB34 23-0BA	0.012	1	
	1 NO (gold-plated)						
	1 NC			3SB34 23-0C 3SB34 23-0CA	0.012	1	
	1 NC (gold-plated)						
	Lampholder with integrated LED	AC/DC 24 V	yellow red green blue white	3SB34 23-1PA 3SB34 23-1PB 3SB34 23-1PC 3SB34 23-1PD 3SB34 23-1PE		0.012	1
						0.012	1
AC 110 V		yellow green red blue white	3SB34 23-1QA 3SB34 23-1QC 3SB34 23-1QB 3SB34 23-1QD 3SB34 23-1QE		0.012	1	
					0.012	1	
AC 230 V		yellow blue green red white	3SB34 23-1RA 3SB34 23-1RD 3SB34 23-1RC 3SB34 23-1RB 3SB34 23-1RE		0.012	1	
					0.012	1	
Support terminal			black blue green/yellow	3SB34 23-2F 3SB34 23-2G 3SB34 23-2H		0.012	1
						0.012	1
						0.012	1

→ Positive opening according to IEC 60947-5-1, Appendix K.










* This quantity or a multiple thereof can be ordered

Pushbutton Units and Indicator Lights

SIRIUS 3SB3, ○ Round Design, 22mm, Enclosed

Accessories

Selection and ordering data

Version	Labelling/ color	Order No.	List Price \$	Weight approx.	Packs
			1 unit	kg	Unit
 Yellow backing plate as contrasting area for enclosed EMERGENCY-STOP pilot device, self adhesive	blank with recess for inscription plate	3SB19 02-1AQ 3SB19 02-2AQ		0.005	1
 Hole plug for round design	black	3SB39 21-0AA		0.03	10
 Connection piece for combining 2 enclosures, 2 × Pg 16		3SB39 01-0AE		0.008	1
 Adapters for pushbuttons ¹⁾ for snap-on fitting of 3 elements, with front-plate mounting		3SB39 01-0AB		0.001	20
 Adapters for selector switches and key-operated switches with pressure plates, for actuating the cen- tral contact block, with front-plate mounting		3SB39 01-0AC		0.001	10
 Pressure Plates for selector switches and key-operated switches for actuating the central contact block, with base mounting		3SB39 01-0AW		0.001	10
 Cable glands (without hexagonal nut) M 20 M 25 Pg 16 Pg 21		3SB39 01-0CK 3SB39 01-0CM 3SB39 01-0AK 3SB39 01-0AM		0.01	1
 Hexagonal nut for cable glands M 20 M 25 Pg 16 Pg 21		3SB39 01-0CL 3SB39 01-0CN 3SB39 01-0AL 3SB39 01-0AN		0.001	1
 Pg 16 terminal for AS interface cable suitable receptacles: crimp snap-in contacts 0.2–0.56 mm ²		3SB39 01-0AF			1

1) Holder also for pushbuttons, mushroom push-buttons and push-pull switches.

Pushbuttons and Indicator Lights

SIRIUS 3SB3, ○ Round Design, 22 mm, Enclosed

Labeling with inscription plates

Design



The inscription plates (black with white inscription)¹⁾ have an adhesive layer on the back.

Inscription

The inscription (and the special inscription) has capital initial letters.

Selection and ordering data

Inscription	Order No.	List Price \$	Weight per PU, approx.	Packs
		1 unit	kg	Unit
Blank				
Without inscription	3SB39 06-1AA		0.100	10
With inscription				
On	3SB39 06-1EB		0.001	10
Off	3SB39 06-1AC		0.001	10
Off	3SB39 06-1EC		0.001	10
Up	3SB39 06-1ED		0.001	10
Down	3SB39 06-1EE		0.001	10
Forward	3SB39 06-1EF		0.001	10
Reverse	3SB39 06-1EG		0.001	10
Right	3SB39 06-1EH		0.001	10
Left	3SB39 06-1EJ		0.001	10
Open	3SB39 06-1EP		0.001	10
Close	3SB39 06-1EQ		0.001	10
Fast	3SB39 06 -1ER		0.001	10
Slow	3SB39 06 -1ES		0.001	10
Operation	3SB39 06 -1AP		0.001	10
Running	3SB39 06 -1EV		0.001	10
Fault	3SB39 06 -1EW		0.001	10
Reset	3SB39 06 -1EM		0.001	10
Test	3SB39 06 -1EN		0.001	10
Start	3SB39 06 -1EL		0.001	10
Stop	3SB39 06-1EK		0.001	10
EMERGENCY STOP	3SB39 06 -1EY		0.001	10

Inscription	Order No.	List Price \$	Weight per PU, approx.	Packs
		1 unit	kg	Unit
Equipment				
Fan	3SB39 06 -1CA		0.001	10
Pump	3SB39 06 -1CB		0.001	10
Cooling	3SB39 06 -1CC		0.001	10
Heating	3SB39 06 -1CD		0.001	10
Lighting	3SB39 06 -1CE		0.001	10
Filter	3SB39 06 -1CF		0.001	10
Motor	3SB39 06 -1CG		0.001	10
Compressor	3SB39 06 -1CH		0.001	10
Symbol for ON/OFF				
O	3SB39 06-1MB		0.001	10
I	3SB39 06-1MC		0.001	10
II	3SB39 06-1MD		0.001	10
III	3SB39 06-1ME		0.001	10
O I (horizontal)	3SB39 06-1MF		0.001	10
I O II (horizontal)	3SB39 06-1MG		0.001	10
I O (vertical)	3SB39 06-1MH		0.001	10
II O I (vertical)	3SB39 06-1MW		0.001	10
Motion symbols				
→	3SB39 06-1NA		0.001	10

Custom software - FREE

http://www2.automation.siemens.com/cd/is_befehlen/html_00/ftp/Sirius_Freigabe_Version015.zip

Laser Printers	Qty	Order No.	List Price \$
			1 unit
12.5 x 27mm Plate	(480)	3SB39 022AA	
27 x 27 mm Plate	(480)	3SB39 032AA	
17.5 x 28 mm Plate	(720)	3SB39 052AA	
22 x 22 mm Plate	(700)	3SB39 062AA	
Illuminated Blanks	(480)	3SB39 012AB	

Custom Ordering

Custom Symbol Inscription

Acc. to IEC or ISO

- Symbol Number must be included with order number using the following format: Z = Symbol #
(Ex: Z = 0096 ISO)

3SB39 06-0XZK3Y

Acc. to order

- A CAD file (.DXF format) must be provided with order. Please submit file along with the following Z = Please inscribe acc. to file_name.DXF

3SB39 06-0XZK9Y

Custom Text Inscriptions

- Up to three lines of text with 11 characters per line

- Inscription must be submitted with order

using the following format: Z = Inscribed text. Use "Z1 =", "Z2 =" and "Z1 =" "Z3 =" for lines 1, 2 and 3 respectively. (Ex: Z1 = Push, Z2 = to start)

Capital initial letters

3SB39 06-0XZK0Y

Capital letters

3SB39 06-0XZK1Y

Lower-case letters

3SB39 06-0XZK2Y

Acc. to order

(Capitalization will appear exactly as provided)

3SB39 06-0XZK9Y

1) The inscription plates from the 3SB1 range (silver with black lettering) can also be used.

Pushbutton Units and Indicator Lights

SIRIUS 3SB3, ○ Round Design, 22mm, Enclosed

Enclosures with choice of operators

Overview

With 1 to 6 command points, operating voltage up to 400 V.

One command point comprises:

- 1 actuator or indicator
- Up to 3 switch blocks or lampholder,
- 1 labeling plate


The equipment for the command points must be selected from the tables. For ordering, the order supplement is required.

For routing the cable through, one opening for M20 is provided at the top and bottom (for 1 or 4 command points) or for M25 (for 6 command points).

Pricing

The prices are made up of the enclosure prices and a price supplement based on the choice of command points.

Selection and ordering data

Version	Number of command points	Molded-plastic enclosure	Weight per PU, approx.	Packs	Metal enclosure	Weight per PU, approx.	Packs
		Order No.	kg	Unit	Order No.	kg	Unit
 <p>3SB38 03-.AZ (the components are only an example)</p>	1	3SB38 01-0AZ		1	3SB38 01-2AZ		1
	2	3SB38 02-0AZ		1	3SB38 02-2AZ		1
	3	3SB38 03-0AZ		1	3SB38 03-2AZ		1
	4	3SB38 04-0AZ		1	3SB38 04-2AZ		1
	6	3SB38 06-0AZ		1	3SB38 06-2AZ		1
With single-pole switch blocks and lampholders, for front plate mounting	1	3SB38 01-1AZ		1	3SB38 01-3AZ		1
	2	3SB38 02-1AZ		1	3SB38 02-3AZ		1
	3	3SB38 03-1AZ		1	3SB38 03-3AZ		1
	4	3SB38 04-1AZ		1	3SB38 04-3AZ		1
	6	3SB38 06-1AZ		1	3SB38 06-3AZ		1

* This quantity or a multiple thereof can be ordered

Pushbuttons and Indicator Lights

SIRIUS 3SB3, ○ Round Design, 22 mm, Enclosed

Enclosures

Options

Guide for completing the order form supplement

1. Enter the Item No.

2. Enter the quantity required.

3. Enter the required Order No, e.g.:

- 3SB38 0.-0AZ for molded-plastic enclosure, base mounting contact blocks
- 3SB38 0.-1AZ for molded-plastic enclosure, contact blocks for operator mounting
- 3SB38 0.-2AZ for metal enclosure, base mounting contact blocks
- 3SB38 0.-3AZ for metal enclosure, contact blocks for operator mounting

Enter Order No. supplement for the 7th position (No. of operators).

4. Enter data in the diagram.

4.1 Select operators from the selection tables.

Enter the appropriate code. Mushroom pushbuttons of diameter 40 mm cannot be placed next to each other because of the close spacing.

The purpose of the identification letter (A to F) on the inside of the cover and base of the enclosure is to simplify ordering and complementing of enclosures.

Should an operator not be required, state the code for a hole plug.

4.2 Specify contact blocks, lampholders and voltage reducers for each operator.

Select the codes for the desired equipment in accordance with the relevant table and enter them in the appropriate column. For the following devices, the quantity and type of required contact blocks, lampholders etc. must be entered:

- Pushbuttons,
- Selector Switches with 2 positions,
- Illuminated pushbuttons,
- Indicator lights.

Illuminated pushbuttons and indicator lights with a voltage reducer are supplied with an incandescent lamp.

If a lampholder without voltage reducer is to be supplied with a lamp, state the lamp voltage and, for 110 V, the lamp type (incandescent, glow lamp or LED lamp) under note 4.3.

The relevant selection table contains all the possible combinations for 3-position actuators acc. to EN 50013. Enter the appropriate code. If a different arrangement of contact blocks is desired for an operator, this operator must be ordered without contact blocks. The contact blocks must be ordered separately and installed into the enclosure.

The operators in the enclosure can be installed with a maximum of 3 contact blocks or 2 contact blocks and 1 lampholder.

4.3 Notes on non-standard versions of equipment.

Non-standard refers to equipment that differs from that listed in this catalog, e.g.

- Additional supply of lamps without voltage reducers: state lamp voltage and type of lamp (incandescent lamp, glow lamp or LED lamp).
- Insert labels for illuminated pushbuttons: Select and enter Order No.
- For lockable operators: special locks (= different Lock No.).

When lampholders with LEDs are used, the required color of the LED can be specified here.

If the color is not specified, LEDs the same color as the operator will be used.

4.4 Inscription of the labeling plates.

Simply enter the text, select labeling plates in accordance with the ordering data. If a blank plate is required, state "blank". The labeling plates are delivered loose.

If no labeling plate is to be supplied, enter "without plate".

Labeling plates with a special text can be supplied at an additional charge. Simply enter the text, and the labeling plates will then be delivered with the plates stuck to the cover of the enclosure.

The lettering has uppercase initial letters.

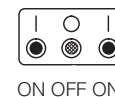
4.5 Check the position of the labeling plate for horizontal or vertical mounting.

If no entry is made, the equipment will be supplied for vertical mounting.

Vertical mounting

ON		White or clear
ON		White or green
OFF		Black or red

Horizontal mounting



4.6 Special features (only when required).

Special features are versions of enclosures that differ from those listed in this catalog, E.g. if required, check the yellow backing plate according to EN 60204 (VDE 0113 Part 1). Enclosures with only one operator will then be supplied with a yellow cover. Should the enclosure have more than one operator, a yellow name plate will be factory installed at point "A". If the yellow name plate should be attached to another operator, please state which one this is to be.

4.7 Type of operators.

Specify here whether an operator made of molded-plastic or metal should be installed.

If this is not specified, molded-plastic operator will be used with molded-plastic enclosures and metal operator will be used with metal enclosures.

4.8 Connection system.

Specify here whether contact blocks and lampholders should be used with spring-loaded terminals or screw connection.

If this is not specified, contact blocks with screw connection will be used.

Pushbutton Units and Indicator Lights

SIRIUS 3SB3, ○ Round Design, 22 mm, Enclosed

Enclosures with choice of operators

Order form supplement

Recipient:
Local Siemens Sales Office

Date

Purchaser's order reference/Order ref 1

Supplier's order reference

1. **Item No.** 2. **Quantity** 3. **Order No.** (complete according to selection table)
3SB38 . . - . . Z

4. Equipment

4.4

Inscription of the
labeling plates
(up to 11 characters
1 to 3 lines)

4.1

Operators
(order codes)

4.2

Contact blocks,
lampholders, voltage
reducers
(codes) *

4.3

Notes on special ver-
sions, e.g. LED, lamp
voltage,
insert labels,
laser inscription,
special lock

top or right

		F			
		E			
		D			
		C			
		B			
		A			

Bottom or left A to F are identification letters on the inside of the covers and bases

4.5 Position of legend plates for

- vertical mounting
- horizontal mounting

4.6 Special features, e.g.

- Yellow backing plate at hole "A" or yellow cover for enclosed units with only one hole
-

4.7 Operators

- Molded-plastic version
- Metal version

4.8 Connection system

- Screw connection
- Spring-loaded terminal

* If 3-position operators are used, the numerical codes shown in this catalog for the contact block arrangement should be stated (e.g. 03 for 2 NO, 05 for 2 NC, etc.).

Pushbutton Units and Indicator Lights

SIRIUS 3SB3, Choice of Equipment

Choice of equipment

Selection and ordering data

Version	Codes for colors (4.1)													
	black		red		yellow		green		blue		white		clear	
Operators and indicators¹⁾														
22.5 mm blank plug ²⁾	BV	BK	–	–	–	–	–	–	–	–	–	–	–	–
Pushbutton with flat button	D	BK	D	RD	D	YE	D	GN	D	BU	D	WH	D	CL
Illuminated pushbutton with flat button	–	–	DL	RD	DL	YE	DL	GN	DL	BU	DL	WH	DL	CL
Pushbutton with raised button ²⁾	DH	BK	DH	RD	DH	YE	–	–	DH	BU	–	–	–	–
Illuminated pushbutton with raised button ²⁾	–	–	DHL	RD	DHL	YE	DHL	GN	DHL	BU	–	–	DHL	CL
Pushbutton with raised front ring	DHF	BK	DHF	RD	DHF	YE	DHF	GN	DHF	BU	DHF	WH	–	–
Pushbutton with raised front ring (castell.)	DFZ	BK	DFZ	RD	DFZ	YE	DFZ	GN	DFZ	BU	DFZ	WH	–	–
Pushbutton with flat button	DS	BK	DS	RD	DS	YE	DS	GN	DS	BU	DS	WH	–	–
Illuminated pushbutton with flat button	–	–	DLS	RD	DL	YE	DLS	GN	DLS	BU	DLS	WH	DLS	CL
Mushroom shaped pushbutton, Ø 30 mm ²⁾	P30	BK	P30	RD	P30	YE	P30	GN	–	–	–	–	–	–
Illuminated mushroom pushbutton, Ø 30 mm ²⁾	–	–	–	–	PL30	YE	PL30	GN	–	–	PL30	WH	–	–
Mushroom pushbutton, Ø 40 mm ²⁾	P	BK	P	RD	P	YE	P	GN	–	–	–	–	–	–
Illuminated mushroom pushbutton, Ø 40 mm ²⁾	–	–	PL	RD	PL	YE	PL	GN	–	–	–	–	–	–
Pushbutton, with raised button, maintained-contact type; ²⁾ latched by pressing and turning to the right, unlatching by turning to the left	DHR	BK	DHR	RD	–	–	–	–	–	–	–	–	–	–
EMERGENCY-STOP mushroom pushbutton acc. to EN 418, Ø 40 mm, with positive latching Releases by turning anticlockwise	–	–	PRÜ 40	RD	–	–	–	–	–	–	–	–	–	–
EMERGENCY-STOP mushroom pushbutton acc. to EN 418, Ø 40 mm, with positive latching with RONIS lock, lock No. SB30	–	–	PRS 30	RD	–	–	–	–	–	–	–	–	–	–
EMERGENCY-STOP mushroom pushbutton acc. to EN 418, Ø 40 mm, with positive latching with CES lock, lock No. SSG10	–	–	PRS 10	RD	–	–	–	–	–	–	–	–	–	–
EMERGENCY-STOP mushroom pushbutton acc. to EN 418, Ø 40 mm, with positive latching with BKS lock, lock No. S1	–	–	PRS S1	RD	–	–	–	–	–	–	–	–	–	–
EMERGENCY-STOP mushroom pushbutton acc. to EN 418, Ø 40 mm, with positive latching with O.M.R. lock, lock No. 73037	–	–	PRS 73	RD	–	–	–	–	–	–	–	–	–	–
Audible signal device ²⁾ , IP 40	AMK	BK	–	–	–	–	–	–	–	–	–	–	–	–
Indicator light	–	–	L	RD	L	YE	L	GN	L	BU	L	WH	L	CL
Push-pull button, snap-action type, Ø 30 mm ²⁾	DZ 30	BK	DZ30	RD	–	–	–	–	–	–	–	–	–	–
Illuminated push-pull button, snap-action type, Ø 30 mm ²⁾	–	–	DZB30	RD	DZB30	YE	DZB30	GN	DZB30	BU	–	–	DZB30	CL
Push-pull button, snap-action type, Ø 40 mm ²⁾	DZ	BK	DZ	RD	–	–	–	–	–	–	–	–	–	–
Illuminated push-pull button, snap-action type, Ø 40 mm ²⁾	–	–	DZB	RD	DZB	YE	DZB	GN	DZB	BU	–	–	DZB	CL

For special designs, see page 10/87.

1) For more details about these operators, see pages 10/37 to 10/49.

2) Cannot be used with front panel module.

Pushbutton Units and Indicator Lights

SIRIUS 3SB3, Choice of Equipment

Choice of equipment

Selection and ordering data

Version	Codes for colors (4.1)						
	black	red	yellow	green	blue	white	clear

Selector switches¹⁾

Switching sequence O-I maintained

Non-illuminated	K1	BK	K1	RD	–	K1	GN	–	K1	WH	–	CL	
Illuminated	–		BK1	RD	BK1	YE	BK1	GN	BK1	BU	–	BK1	CL

Switching sequence O-I momentary to the right (with spring return from the right)

Non-illuminated	K2	BK	K2	RD	–	K2	GN	–	K2	WH	–	CL	
Illuminated	–		BK2	RD	BK2	YE	BK2	GN	BK2	BU	–	BK2	CL

Switching sequence I-O-II maintained

Non-illuminated	K4	BK	K4	RD	–	K4	GN	–	K4	WH	–	CL	
Illuminated	–		BK4	RD	BK4	YE	BK4	GN	BK4	BU	–	BK4	CL

Switching sequence I-O-II momentary (with spring return from the left and right)

Non-illuminated	K5	BK	K5	RD	–	K5	GN	–	K5	WH	–	CL	
Illuminated	–		BK5	RD	BK5	YE	BK5	GN	BK5	BU	–	BK5	CL

Switching sequence I-O-II maintained to the right, momentary to the left (with spring return from the left)

Non-illuminated	K6	BK	K6	RD	–	K6	GN	–	K6	WH	–	CL
-----------------	----	----	----	----	---	----	----	---	----	----	---	----

Switching sequence I-O-II maintained to the left, momentary to the right (with spring return from the right)

Non-illuminated	K7	BK	K7	RD	–	K7	GN	–	K7	WH	–	CL
-----------------	----	----	----	----	---	----	----	---	----	----	---	----

Version	Code Key removable in position						
	O	I	II	O and I	O and II	I and II	I, O and II

Key-operated switches¹⁾

Switching sequence O-I maintained

RONIS type, flat, lock No. SB30	RSB	1A	RSB	1E	–	RSB	1AE	–	–	–
CES type, lock No. SSG 10 lock No. LSG 1	CES	1A	CES	1E	–	CES	1AE	–	–	–
	CESL	1A	–	–	–	CESL	1AE	–	–	–
IKON type, lock No. 360012 K1	Z-J	1A	–	–	–	Z-J	1AE	–	–	–
BSK type, lock No. S1 lock No. E1 for (VW)	BKS	1A	BKS	1E	–	BKS	1AE	–	–	–
	BKS A	1A	BKS	1E	–	BKS A	1AE	–	–	–
O.M.R. type, black, lock No. 73034	OMR BK	1A	OMR BK	1E	–	OMR BK1AE	–	–	–	–

For special designs, see page 10/87.

1) For more details about these operators, see pages 10/37 to 10/49.

Pushbutton Units and Indicator Lights

SIRIUS 3SB3, Choice of Equipment

Choice of equipment

Selection and ordering data

Version	Code											
	Key removable in position											
	O	I	II	O and I	O and II	I and II	I, O and II					
Key-operated switches ¹⁾												
Switching sequence O-I momentary to the right (with spring return from the right)												
RONIS type, flat, lock No. SB30	RSB	2A	-	-	-	-	-					
CES type, lock No. SSG 10	CES	2A	-	-	-	-	-					
lock No. LSG 1	CESL	2A	-	-	-	-	-					
IKON type, lock No. 360012 K1	Z-J	2A	-	-	-	-	-					
BKS type, Lock No. S1	BKS	2A	-	-	-	-	-					
O.M.R. type, black, lock No. 73034	OMR BK	2A	-	-	-	-	-					
Switching sequence I-O-II maintained												
RONIS type, flat, lock No. SB30	RSB	4A	RSB	4E	RSB	4D	-	-	RSB	4ED	RSB	4EAD
CES type, Lock No. SSG 10	CES	4A	CES	4E	CES	4D	-	-	CES	4ED	CES	4EAD
IKON type, lock No. 360012 K1	Z-J	4A	Z-J	4E	Z-J	4D	-	-	Z-J	4ED	Z-J	4EAD
BKS type, Lock No. S1	BKS	4A	BKS	4E	BKS	4D	-	-	BKS	4ED	BKS	4EAD
O.M.R. type, black, lock No. 73034	OMR BK	4A	-	-	-	-	-	-	OMR BK	4ED	OMR BK	4EAD
Switching sequence I-O-II momentary (with spring return from the left and right)												
RONIS type, flat, lock No. SB30	RSB	5A	-	-	-	-	-	-	-	-	-	
CES type, Lock No. SSG 10	CES	5A	-	-	-	-	-	-	-	-	-	
IKON type, lock No. 360012 K1	Z-J	5A	-	-	-	-	-	-	-	-	-	
BKS type, Lock No. S1	BKS	5A	-	-	-	-	-	-	-	-	-	
O.M.R. type, black, lock No. 73034	OMR BK	5A	-	-	-	-	-	-	-	-	-	
Switching sequence I-O-II maintained to the right, momentary contact to the left (with spring return from the left)												
RONIS type, flat, lock No. SB30	RSB	6A	-	RSB	6D	-	RSB	6AD	-	-	-	
CES type, Lock No. SSG 10	CES	6A	-	CES	6D	-	CES	6AD	-	-	-	
IKON type, lock No. 360012 K1	Z-J	6A	-	Z-J	6D	-	Z-J	6AD	-	-	-	
BKS type, Lock No. S1	BKS	6A	-	BKS	6D	-	BKS	6AD	-	-	-	
O.M.R. type, black, lock No. 73034	OMR BK	6A	-	OMR BK	6D	-	OMR BK	6AD	-	-	-	
Switching sequence I-O-II maintained to the left, momentary to the right (with spring return from the right)												
RONIS type, flat, lock No. SB30	RSB	7A	RSB7E	-	RSB7AE	-	-	-	-	-	-	
CES type, Lock No. SSG 10	CES	7A	CES	7E	-	CES	7AE	-	-	-	-	
IKON type, lock No. 360012 K1	Z-J	7A	Z-J	7E	-	Z-J	7AE	-	-	-	-	
BKS type, Lock No. S1	BKS	7A	BKS	7E	-	BKS	7AE	-	-	-	-	
O.M.R. type, black, lock No. 73034	OMR BK	7A	OMR BK	7E	-	-	-	-	-	-	-	

For special designs, see page 10/87.

1) For more details about these actuators, see pages 10/37 to 10/49.

Pushbutton Units and Indicator Lights

SIRIUS 3SB3, Choice of Equipment

Choice of equipment

Selection and ordering data

	Version	Code	
Contact blocks, lampholders and voltage reducers			
Codes for lampholders and actuators with 2 switch positions	Contact block	Normally open Normally closed	
	Lampholder without lamp	NO NC	
	Lampholder with lamp, Enter order No. under IV/3 (Notes) ¹⁾	BA 9 s BA 9s L	
	BA 9s lampholder + voltage reducer (operational voltage AC 230 V) for connecting a 130 V lamp	BA 9s VL	
	+ lamp		
	BA 9s lampholder + audible signal transducer	BA 9s S	
	Lampholder with integrated LED	AC/DC 24 V AC 110 V AC 230 V	LED24 LED110 LED230
	Holder for 3 snap-on elements with front plate fixing		
	Holder with pressure plates for selector switch and key-operated switch for operating the middle contact block, with front plate fixing		
	Pressure plate for selector switch and key-op. switch for operating the middle contact block, with base fixing		
Support terminals	black blue green/yellow	Sk BK Sk BU Sk GNYE	

	Number and type of contact blocks	in position I		in position II		Code
		actuated	contact identification	actuated	contact identification	
Code for actuators with 3 positions	2 NO	1 NO	13/14	1 NO	23/24	03
	1 NO + 1 NC	1 NO	13/14	1 NC	21/22	04
	2 NC	1 NC	11/12	1 NC	21/22	05
	3 NO	2 NO	13/14 and 33/34	1 NO	23/24	07
		1 NO	13/14	2 NO	23/24 and 33/34	08
		2 NO	13/14 and 33/34 ²⁾	2 NO	23/24 and 33/34 ²⁾	06
	2 NO+1 NC	2 NO	13/14 and 33/34	1 NC	21/22	11
		1 NO	13/14	1NC+1NO	21/22 and 33/34	12
		2 NO	13/14 and 33/34 ²⁾	1NC+1NO	21/22 and 33/34 ²⁾	10
		1 NO + 1 NC	1 NO + 1 NC	13/14 and 31/32	1 NC	21/22
1 NO			13/14	2 NC	21/22 and 31/32	15
1 NO + 2 NC	1 NO + 1 NC	13/14 and 31/32 ²⁾	2 NC	21/22 and 31/32 ²⁾	13	
	3 NC	2 NC	11/12 and 31/32	1 NC	21/22	17
		1 NC	11/12	2 NC	21/22 and 31/32	18
		2 NC	11/12 and 31/32 ²⁾	2 NC	21/22 and 31/32 ²⁾	16

	Inscription	
Labelling plates	Inscription in accordance with the table on page 10/80. Special inscription blank	Laser-printed inscription

Special Designs

Selection and ordering data

	Version	
3SB38 enclosed pushbutton units	Fitting a yellow backing plate	without inscription with recess for inscription plate
	Enclosure with yellow lid ³⁾	

1) For lamps, see page 10/73.

2) This contact block is actuated in positions I and II.

3) Only possible for single point enclosed push-button units.

Pushbutton Units and Indicator Lights

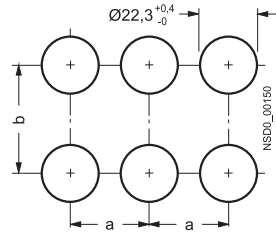
SIRIUS 3SB3

Dimension drawings (mm) Operator and indicator elements

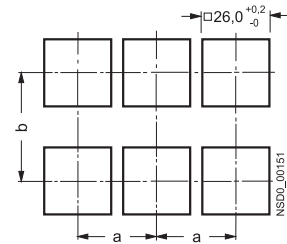
Dimension drawings

Mounting dimensions

Round design



Square design



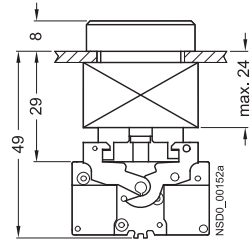
Minimum clearance

	a	b
Switch blocks (1 contact) and lampholder		
• for front plate mounting, with screw terminals	30 ¹⁾	45
• for front plate mounting, with spring-loaded terminals	30 ¹⁾	30 ¹⁾
• for use on PCB, with solder pins	30 ¹⁾	30 ¹⁾
Switch blocks with 2 contacts		
• for front plate mounting	30 ¹⁾	50
When using holders for labeling plates		
• 12.5 mm x 27 mm	30 ¹⁾	45 ²⁾
• 27.0 mm x 27 mm	30 ¹⁾	60

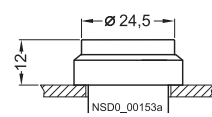
- 1) For mushroom pushbutton, EMERGENCY-STOP and push-pull button:
Note mushroom diameter $d = 40$ mm or 60 mm.
- 2) 60 mm with switch blocks having two contacts.

Molded-plastic version, round

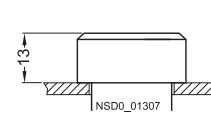
Pushbutton or illuminated pushbutton
with flat pushbutton
and single-pole switch block
(and lampholder)



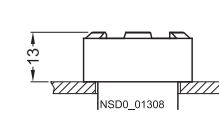
Pushbutton or illuminated pushbutton
with raised button



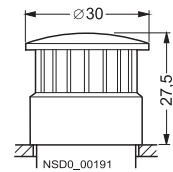
Pushbutton
with raised front ring



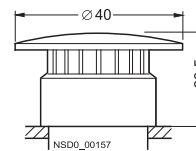
Pushbutton
with raised front ring castellated



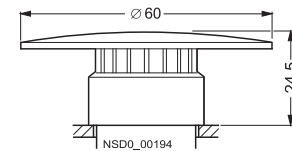
Mushroom pushbutton, illuminated mushroom pushbutton, push-pull-button or illuminated push-pull-button,
? 30 mm



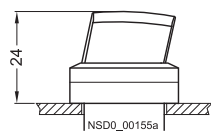
Mushroom pushbutton, illuminated mushroom pushbutton, push-pull-button or illuminated push-pull-button,
? 40 mm



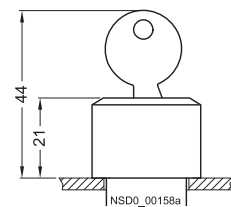
Mushroom pushbutton, illuminated mushroom pushbutton, push-pull-button or illuminated push-pull-button,
? 60 mm



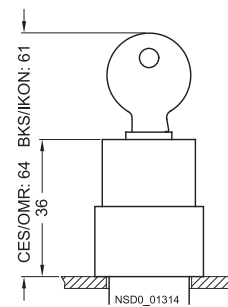
Selector switch or illuminated selector switch



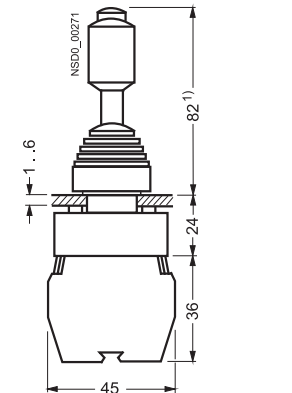
RONIS key-operated switch



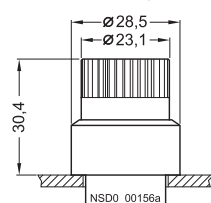
BKS, CES, IKON, O.M.R. key-operated switches



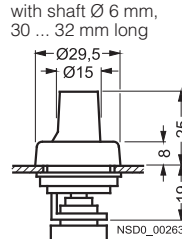
Joystick switch



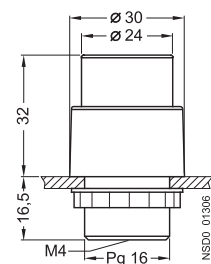
Pushbutton
with raised button, latching



Operating mechanism for potentiometer
with shaft $\varnothing 6$ mm,
30 ... 32 mm long



Pushbutton with extended stroke



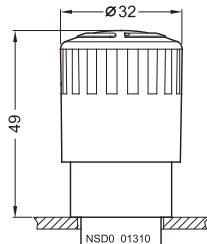
- 1) 82 with mechanical interlock,
77 without mechanical interlock

Pushbutton Units and Indicator Lights

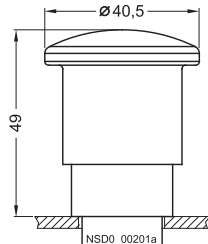
SIRIUS 3SB3

Dimension drawings (mm) Operator and indicator elements

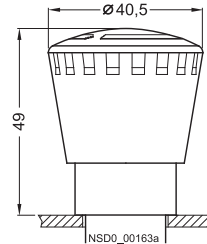
EMERGENCY-STOP mushroom pushbutton,
Ø 32 mm, pull to unlatch



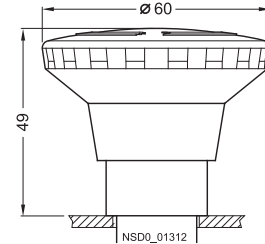
EMERGENCY-STOP mushroom pushbutton,
Ø 40 mm, pull to unlatch



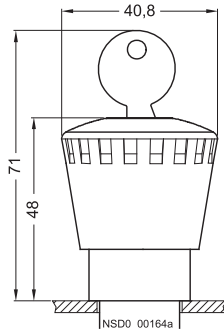
EMERGENCY-STOP mushroom pushbutton,
Ø 40 mm, pull to unlatch



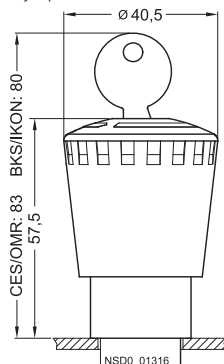
EMERGENCY-STOP mushroom pushbutton,
Ø 60 mm, rotate to unlatch



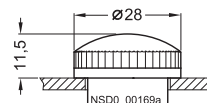
EMERGENCY-STOP mushroom pushbutton
with RONIS key-operated switch



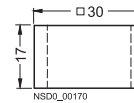
EMERGENCY-STOP mushroom pushbutton
with BKS, CES, IKON, O.M.R.
key-operated switch



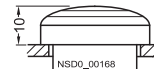
Indicator light



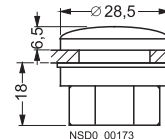
Gear Holder



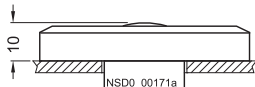
Audible signal device



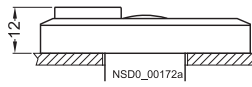
Hole plug



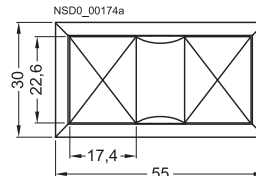
On-Off pushbutton
with flat buttons



On-Off pushbutton
with raised buttons

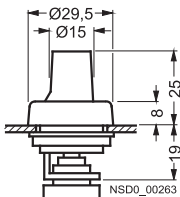


On-Off pushbutton
with or without indicator light

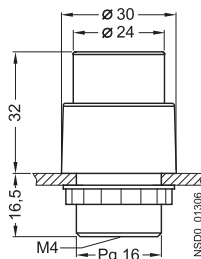


Top view

Operating mechanism for potentiometer
with shaft Ø 6 mm,
30 ... 32 mm long



Pushbutton with extended stroke



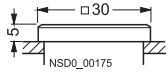
Pushbutton Units and Indicator Lights

SIRIUS 3SB3

Dimension drawings (mm) Operator and indicator elements

Plastic version, square

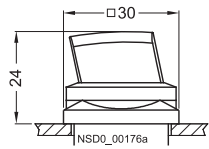
Pushbutton or illuminated pushbutton with flat pushbutton



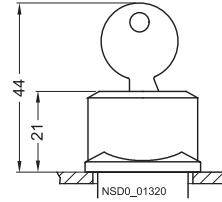
Indicator light



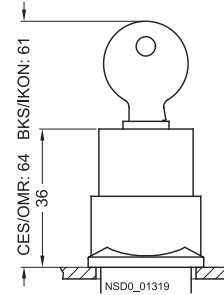
Selector switch or illuminated selector switch



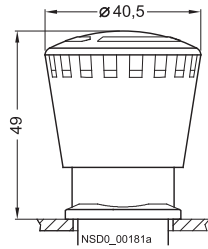
RONIS key-operated switch



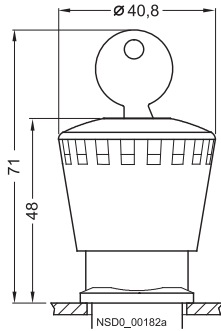
BKS, CES, IKON, O.M.R. key-operated switch



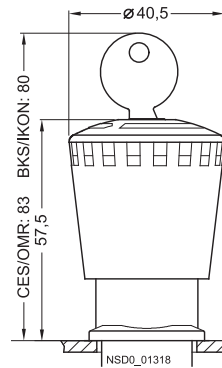
EMERGENCY-STOP mushroom pushbutton with safety lock



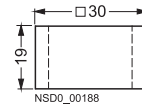
EMERGENCY-STOP mushroom pushbutton with RONIS key-operated switch



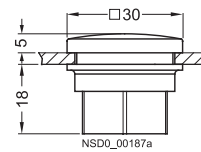
EMERGENCY-STOP mushroom pushbutton with BKS, CES, IKON, O.M.R. key-operated switch



Gear Holder



Hole plug



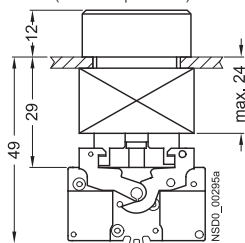
Pushbutton Units and Indicator Lights

SIRIUS 3SB3

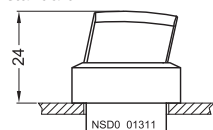
Dimension drawings (mm) Operator and indicator elements

Metal version, round

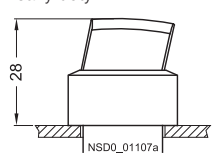
Pushbutton or illuminated pushbutton
with flat button and single-pole switch block (and lampholder)



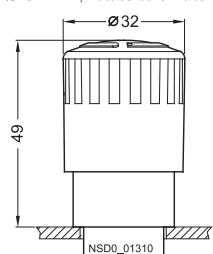
Selector switch or illuminated selector switch,
standard



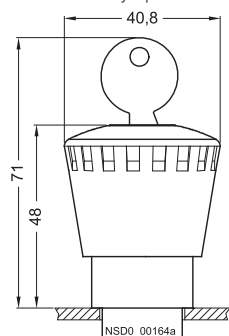
Selector switch or illuminated selector switch,
heavy duty



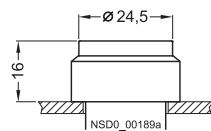
EMERGENCY-STOP mushroom pushbutton,
Ø 32 mm, pull to unlatch



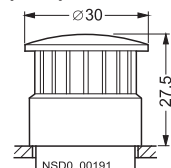
EMERGENCY-STOP mushroom pushbutton
with RONIS key-operated switch



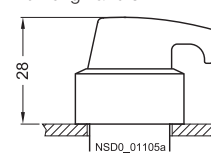
Pushbutton or illuminated pushbutton
with raised button



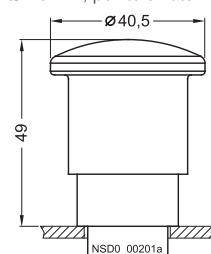
Mushroom pushbutton, illuminated mushroom pushbutton, push-pull-button or illuminated push-pull-button, ? 30 mm



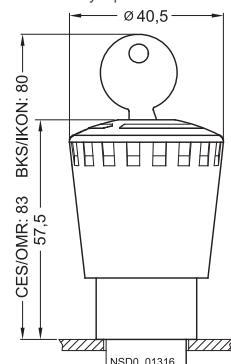
Selector switch or illuminated selector switch
with long handle



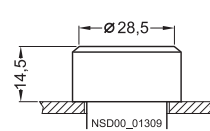
EMERGENCY-STOP mushroom pushbutton,
Ø 40 mm, rotate to unlatch



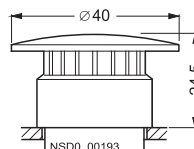
EMERGENCY-STOP mushroom pushbutton
with BKS, CES, IKON, O.M.R. key-operated switch



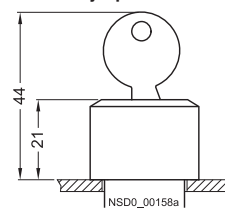
Pushbutton or illuminated pushbutton, latching,
with flat button



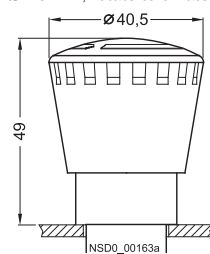
Mushroom pushbutton, illuminated mushroom pushbutton, push-pull-button or illuminated push-pull-button, ? 40 mm



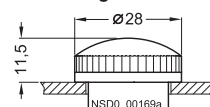
RONIS key-operated switch



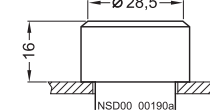
EMERGENCY-STOP mushroom pushbutton,
Ø 40 mm, rotate to unlatch



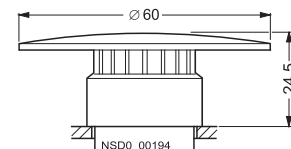
Indicator light



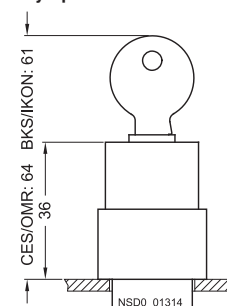
Pushbutton
with raised front ring



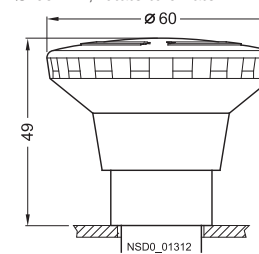
Mushroom pushbutton, illuminated mushroom pushbutton, push-pull-button or illuminated push-pull-button, ? 60 mm



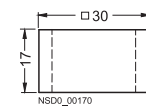
BKS, CES, IKON, O.M.R. key-operated switches



EMERGENCY-STOP mushroom pushbutton,
Ø 60 mm, rotate to unlatch



Gear Holder



Pushbutton Units and Indicator Lights

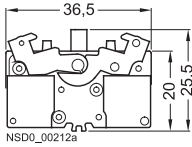
SIRIUS 3SB3

Dimension drawings (mm) Contact blocks and lampholders

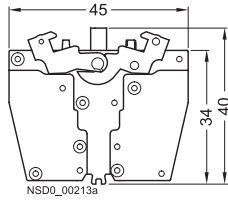
Contact blocks and lampholders

Screw connection, for front plate mounting

Switch block with 1 contact

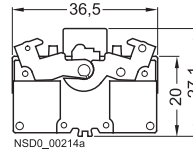


Switch block with 2 contacts



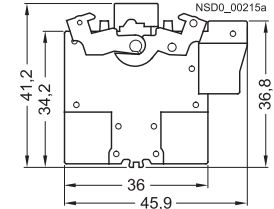
BA 9s lampholder

with or without integrated voltage reducer

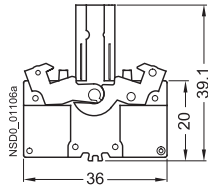


BA 9s lampholder

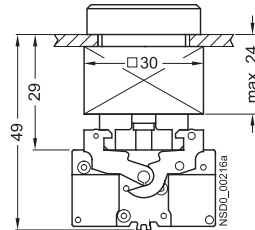
with separate lamp test function



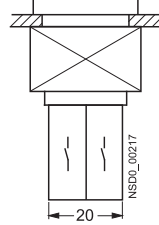
Lampholder with integrated LED



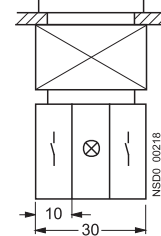
Pushbutton or illuminated pushbutton with switch blocks with 1 contact



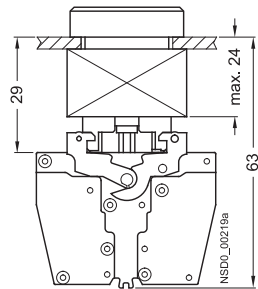
Pushbutton with switch blocks with 1 contact



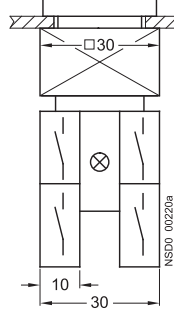
Illuminated pushbutton with switch blocks with 1 contact and lampholder



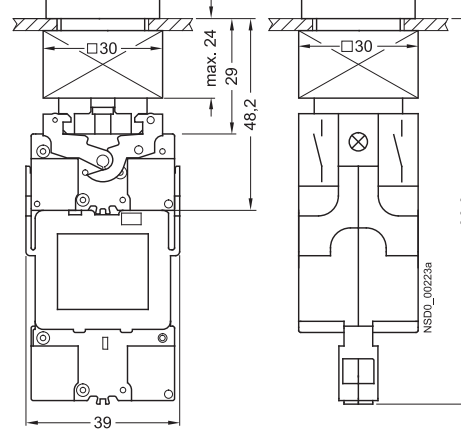
Pushbutton or illuminated pushbutton with switch blocks with 2 contacts



Illuminated pushbutton with switch blocks with 2 contacts and lampholder

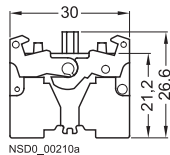


Illuminated pushbutton with switch blocks with 1 contact and lampholder with snapped-on transformer

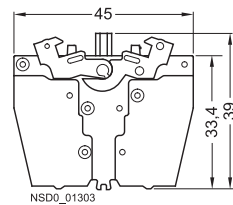


Spring-loaded terminals, for front plate mounting

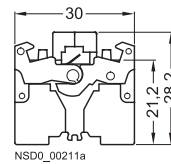
Switch block with 1 contact



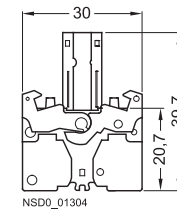
Switch block with 2 contacts



Lampholder BA 9s

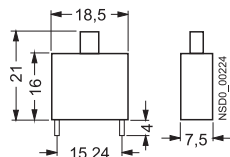


Lampholder with integrated LED

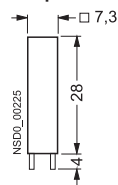


With solder pins, for use on PCB

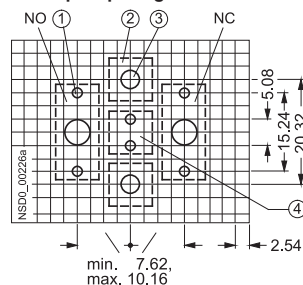
Contact block 1 NO and 1 NC



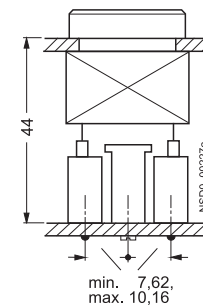
Lampholder



Solder pin spacing



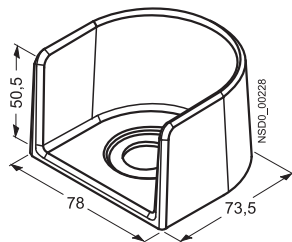
Pushbutton or illuminated pushbutton with contact blocks with 1 contact and PCB support



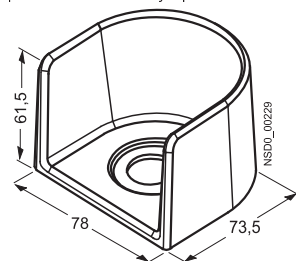
- ① Solder pin $\varnothing 1.3^{+0.1}$
- ② PCB holder
- ③ Centering hole $\varnothing 4.2^{+0.1}$
- ④ Lampholder

Accessories

3SB39 21-0AK shroud
for front plate mounting ¹⁾,
for EMERGENCY-STOP mushroom
pushbutton without key-operated
switch



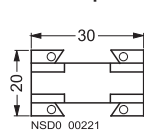
3SB39 21-0AX shroud
for front plate mounting ¹⁾,
for EMERGENCY-STOP mushroom
pushbutton with key-operated switch



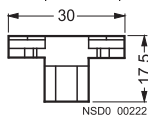
1) Can be used with a front plate thickness up to 4 mm.

Holder for mounting 3 elements

Holder for pushbuttons



Holder for selector switch, key-operated switch and On-Off pushbutton, with pressure plate



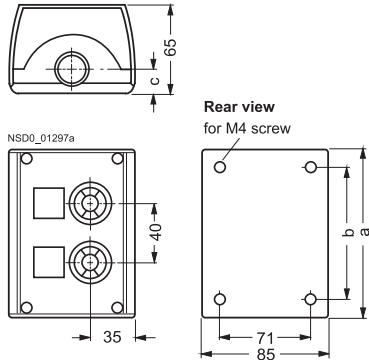
SIRIUS Complete Operating and Display Systems

SIRIUS 3SB3

Dimension drawings (mm) Accessories and enclosures

Enclosures

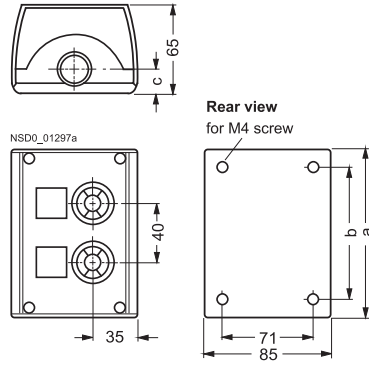
Enclosure without shroud, molded plastic



top and bottom with knockouts for one gland each

Number of command points	Length a	Spacing b	Spacing c
1	85	54	17,5
2	114	83	17,5
3	154	123	17,5
4	194	163	17,5
6	280	249	20,5

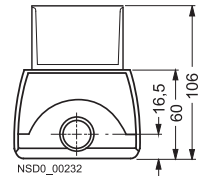
Enclosure without shroud, metal



top and bottom with opening for one gland each

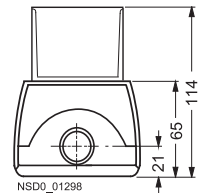
Number of command points	Length a	Spacing b	Spacing c
1	85	54	21
2	114	83	21
3	154	123	21
4	194	163	21
6	280	249	21

Enclosure with shroud, molded plastic



top and bottom with knockouts for one gland each

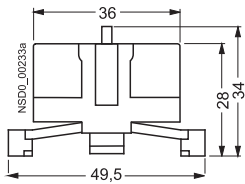
Enclosure with shroud, metal



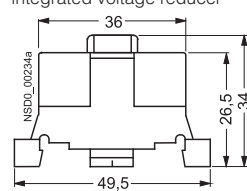
top and bottom with opening for one gland each

Screw connection, for base mounting

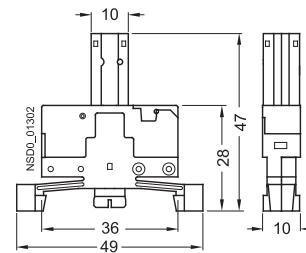
Contact block with 1 contact



BA9s lampholder with or without integrated voltage reducer

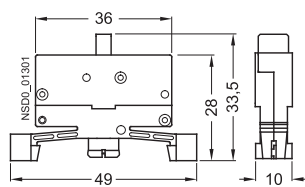


Lampholder with integrated LED

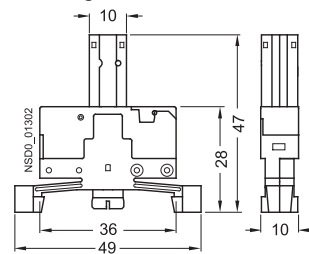


Spring-loaded terminals, for base mounting

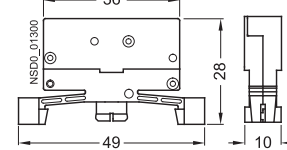
Contact block with 1 contact



Lampholder with integrated LED

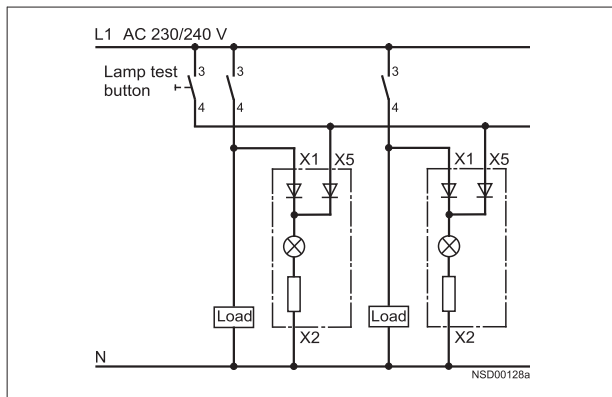


Support terminal

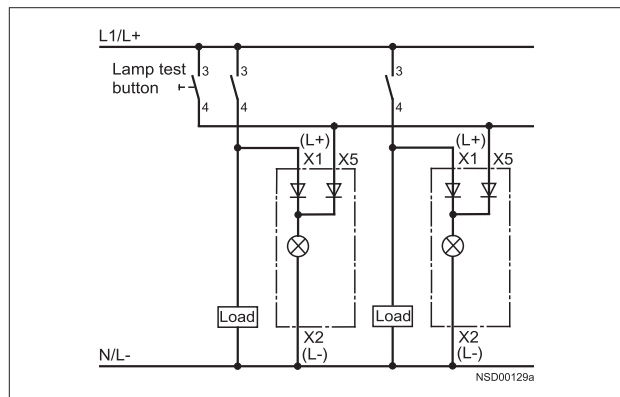


Typical circuits

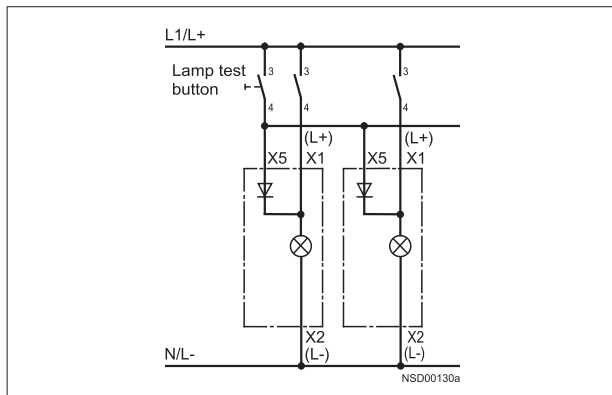
3SB14 00-2N or 3SB34 00-1F lampholder
incl. 130 V incandescent lamp



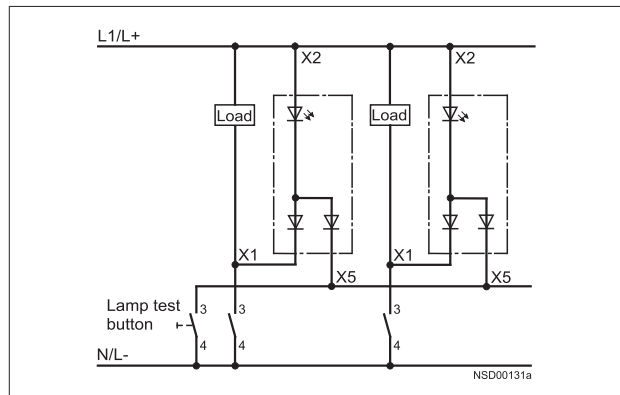
3SB14 00-2P or 3SB34 00-1G lampholder
for incandescent lamps up to 2.6 W or AC/DC LED lamps



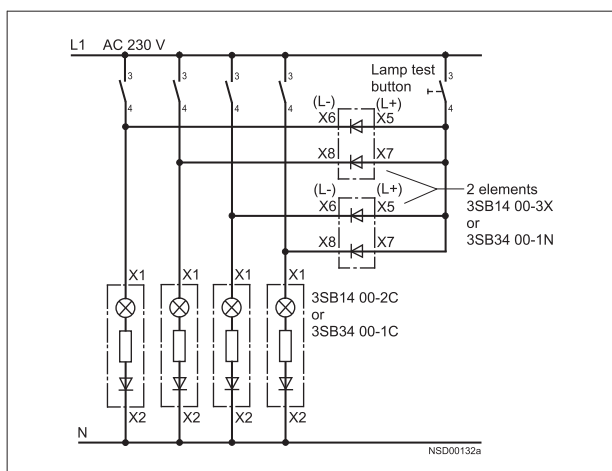
3SB14 00-2Q or 3SB34 00-1H lampholder
for incandescent lamp to 2.6 W or
AC neon bulbs or AC/DC LED lamps



3SB34 00-1L lampholder
for incandescent lamp up to 2.6 W or
DC LED lamps



Typical lamp test circuit with
with 3SB14 00-3X or 3SB34 00-1N



Application examples for 3SB14 00-3X and 3SB34 00-1N diode elements

- Lamp test circuit,
- Interference suppression,
- Limiting voltage peaks,
- Limiting DC coils,
- Diode gates,
- Rectifier circuits.

The diode element contains two 1N 4007 diodes. The element can be snapped onto the gear holder as required.

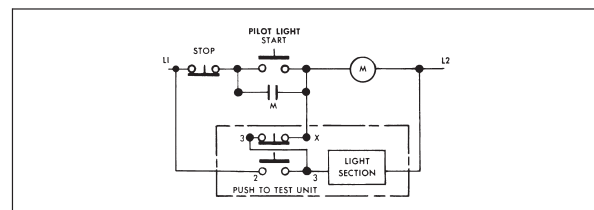
Notes on using the lampholders with separate lamp test function

When connected in parallel with inductive loads (e.g. contactors), surge suppression required.

The 3SB14 00-2Q and 3SB34 00-1H elements are not suitable for use with a parallel load.

Example of a typical push to test circuit using a standard, illuminated pushbutton transformer type with 1 NO + 1 NC contact. e.g. Illuminated Pilot Light components require to make-up a 120 V red raised push to test transformer type use (1) each of the following components:

- 3SB3 001-0BA21
- 52AABN
- 3SB3 400-0B
- 3SB3 400-1A
- 3SB3 400-3M
- 3SB3 400-0C



SIRIUS Complete Operating and Display Systems

LEDs

Technical specifications

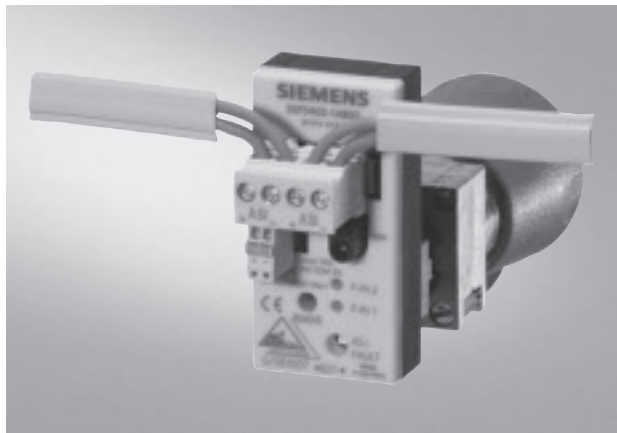
LED display		Numeric	Alphanumeric
Type of display		7-segment LED	LED dot-matrix display
Color		Red or green	Red or green
Operating voltage range		DC 24 V (via AS-i bus for AS-Interface)	DC 24 V
Power consumption for digit height	10 mm 13 mm 17 mm 20 mm 30 mm	0.15 W per digit 0.15 W per digit – 0.2 W per digit 0.3 W per digit	– – 0.2 W per digit – 0.3 W per digit
Display	With AS-i bus With PROFIBUS DP With A/D converter	0 ... 9 and A, b, -, blank 0 to 9 and A, b, C, d, E, F, H, L, o, P, r, U 000 ... ±1999	– ASCII code –
• Input ranges	With A/D converter	DC 0 to ±2 V, DC 0 to ±10 V, 0 to ±20 mA, 4 to 20 mA	–
• Display value	With A/D converter		–
- DC at 0 ... ±2 V		600 ... 1999	
- DC at 0 ... ±10 V		625 ... 1999	
- DC at 1 ... 5 V		for 1 V: -75 ... 275; for 5 V: 1730 ... 1999	
- at 0 ... 20 mA		580 ... 1999	
- at 4 ... 20 mA		at 4 mA: -435 ... 75; at 20 mA: 580 ... 1999	
• Decimal point	With A/D converter	Permanently adjustable to specification	–
Addressed		1 address per display. With AS-Interface: After the 15th addressing procedure, the display retains the last address	
Baud rate	With PROFIBUS DP	12 MBaud	1.5 MBaud
Enclosure		Flush mounting enclosure acc. to DIN, metal	
• Mounting		Screw clamps acc. to DIN	
• Degree of protection	At the front With AS-Interface	IP54 IP65	
Ambient temperature	in operation during storage	0 ... +50 °C -25 ... +70 °C	0 ... +45 °C -10 ... +60 °C
EMC		Acc. to Guideline 89/336/EC (or EMVG)	
• Interference transmission		Basic specification IEC 61000-6-4, EN 61000-6-4 Product specification EN 55011, Group 1/2, Class A, March 1991 Edition Limit curve identical to EN 55022	
• Interference resistance		Basic specification IEC 61000-6-2, EN 61000-6-2	

AS-Interface Slaves

SIRIUS Pushbuttons and Indicator Lights

AS-Interface F adapter for EMERGENCY STOP Operator

Overview



The AS-Interface F adapter is used for connecting the EMERGENCY STOP devices of the SIGNUM 3SB3 series to AS-Interface.

Design

The F adapter has a safe AS-Interface slave and is snapped onto the back of the EMERGENCY STOP device that is not included in the scope of supply.

Connection is via the AS-Interface shaped cable using the insulation piercing method.

Addressing is via the AS-Interface connections or via the built-in addressing socket.

Ordering data

Order No.

List Price \$

AS-Interface F adapter, for EMERGENCY STOP control unit SIGNUM 3SB3 ¹⁾

AS-Interface F adapter for panel mount estop

2 Safe inputs/screw

3SF5 402-1AA03

2 Safe inputs/spring

3SF5 402-1AA04

2 Safe inputs and 1 out/screw

3SF5 402-1AB03

2 Safe inputs and 1 out/screw

3SF5 402-1AB04

EMERGENCY STOP operator

3SF3 500-1HA20

1) The EMERGENCY STOP control unit is not included in the scope of supply. For more information on the EMERGENCY OFF control unit, see Section *Pushbuttons and Light Indicators* in this catalog.

AS-Interface Slaves

SIRIUS Pushbuttons and Indicator Lights

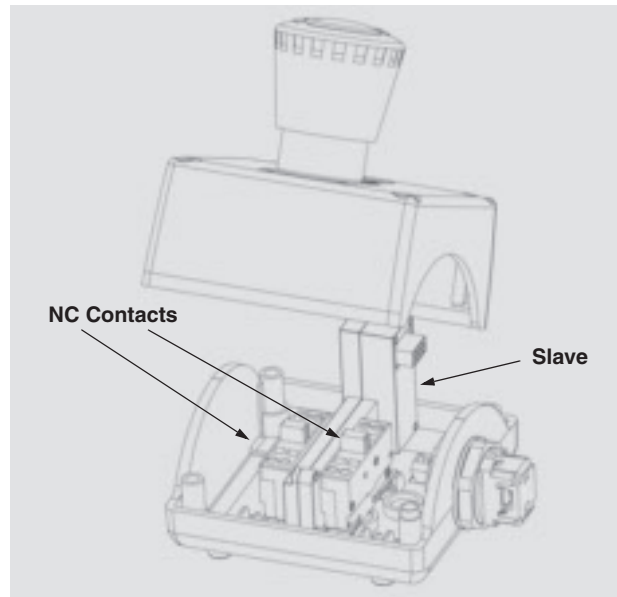
AS-Interface assembled enclosures

Overview



With AS-Interface enclosures, SIRIUS 3SB3 control devices can be quickly integrated into AS-Interface.

Design



The enclosures without Emergency Stop operators contain a 4I/3O slave. Emergency Stop enclosures include the safe slave within the enclosure.

The contact blocks, lampholders, and the AS-Interface snap into the base of the enclosure. They are all connected by cables.

Emergency Stop enclosures include two NC Contact Blocks and the safe slave, required by safety standards.

The module is addressed using the AS-Interface connections or the integrated addressing socket. It is not necessary to supply external power.

The molded plastic enclosures are provided with a connection for the AS-Interface formed cable using the piercing method. In the metal enclosures, the AS-Interface formed cable is routed into the enclosure through a cable gland connection.

Selection and Ordering data

	Number of Command Points	Plastic Version Order No.	List Price \$	Metal Version Order No.	List Price \$
AS-Interface enclosure, molded plastic with standard components¹⁾					
A = EMERGENCY STOP mushroom pushbutton via AS-Interface adapter,	1	3SF5 811-0AA08		3SF5 811-0AA08	
A = EMERGENCY STOP mushroom pushbutton via AS-Interface adapter,	1	3SF5 811-0AB08		3SF5 811-0AB08	
B = green pushbutton, "I" label A = red pushbutton, "O" label	2	3SF5 812-0DA00		3SF5 812-0DA00	
B = white pushbutton, "I" label A = black pushbutton, "O" label	2	3SF5 812-0DB00		3SF5 812-0DB00	
C = clear indicator lamp, label without inscription B = green pushbutton, "I" label A = red pushbutton, "O" label	3	3SF5 813-0DA00		3SF5 813-0DA00	
C = clear indicator lamp, label without inscription B = white pushbutton, "I" label A = black pushbutton, "O" label	3	3SF5 813-0DC00		3SF5 813-0DC00	
C = black indicator lamp, "II" label B = black pushbutton, "I" label A = red pushbutton, "O" label	3	3SF5 813-0DB00		3SF5 813-0DB00	

1) Components (A, B, C = code letters of the command points).

AS-Interface Slaves

SIRIUS Pushbuttons and Indicator Lights

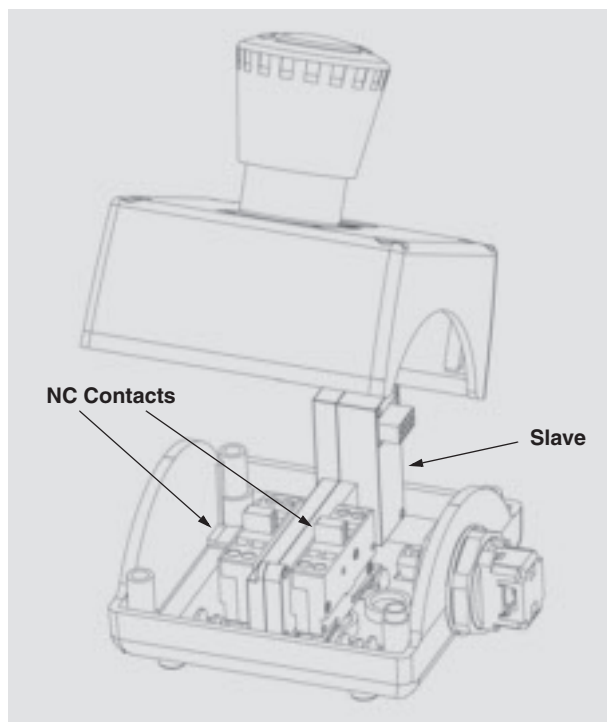
AS-Interface assembled enclosures

Overview



With AS-Interface enclosures, SIRIUS 3SB3 control devices can be quickly integrated into AS-Interface. With the help of the components, enclosures with integrated AS-Interface can be installed easily or offer flexibility to existing enclosures.

Design



The enclosures with integrated AS-Interface are equipped with contact blocks and LED lampholders with spring-loaded technology.

Empty enclosures, contact blocks, LED lampholders, and operators can be found on Section 10/77.

AS-Interface modules, cable sets and a connector are required to integrate the contact blocks and LED lampholders.

The following slave types are available:

- Slave in A/B technology with 4 inputs and 3 outputs
- Slave with 4 inputs and 4 outputs
- F-slave with 2 safe inputs

The following table shows the maximum number of slaves that can be used:

Enclosure for	Number of slaves for enclosures without emergency stop	Number of slaves for enclosures with emergency stop
1 pilot device	Not possible	1x F-slave
2 pilot devices	1 x slave 4I/4O or 4I/3O	Not possible
3 pilot devices	1 x slave 4I/4O or 4I/3O	1 x slave 4I/4O or 4I/3O + 1 x F slave
4 pilot devices	2 x slave 4I/4O or 4I/3O ¹⁾	2 x slave 4I/4O or 4I/3O + 1 x F slave ¹⁾
6 pilot devices	2 x slave 4I/4O or 4I/3O	2 x slave 4I/4O or 4I/3O + 1x F slave

1) Only 1 x slave 4I/4O or 4I/3O possible for metal enclosures.

AS-Interface Slaves

SIRIUS Pushbuttons and Indicator Lights

AS-Interface field assembled components for enclosures

Design (continued)

One cable set each is required to connect a slave to contact blocks, lampholders and the connector.

The connectors are installed to the cable knockout holes on the end of the enclosure. These connectors can be used for routing AS-Interface cable or an unused I/O.

The available connectors for AS-Interface bus are:

- Terminal for trapezoidal-section AS-Interface cable. The cable is connected using the insulation piercing method and routed alongside the enclosure. (only possible with plastic enclosures)

- Cable glands for the trapezoidal-section AS-Interface cable or round cable. The cable is inserted into the enclosure.

- Connection through M12 connector.

All unassigned Inputs/Outputs can be accessed using the M12 connector. The M12 option can be field installed.

To supply the inputs, the S+ connector of the slave must always be connected to the socket. For outputs, the OUT connector must be connected to the socket.

Ordering data

AS-Interface slaves

Ordering data	Order No.	List Price \$ 1 unit
F-slave, 2 safe inputs for molded plastic enclosures, 1-6 pilot devices, without protective collar	3SF5 500-0BA	
F-slave, 2 safe inputs for metal enclosure, 1-6 pilot devices, without protective collar	3SF5 500-0CA	
F-slave, 2 safe inputs for molded plastic or metal enclosures, 1 pilot device, with protective collar	3SF5 500-0DA	
A/B slave, 4 inputs/3 outputs, for molded plastic enclosure, 2-6 pilot devices	3SF5 500-0BB	
A/B slave, 4 inputs/3 outputs, for metal enclosure, 2-6 pilot devices	3SF5 500-0CB	
A/B slave, 4 inputs/4 outputs, for molded plastic enclosure, 2-6 pilot devices	3SF5 500-0BC	
A/B slave, 4 inputs/4 outputs, for molded metal enclosure, 2-6 pilot devices	3SF5 500-0CC	

Cable set

For F-slave	3SF5 900-0BA
For slave 4I/4O or A/B slave 4I(3O)	3SF5 900-0BB

Cable glands

Ordering data	Order No.	List Price \$ 1 unit
For AS-Interface formed cable, connection with insulation piercing method for molded plastic enclosure 1-3 pilot devices	3SF5 900-0CA	
For AS-Interface formed cable, connection with insulation piercing method for molded plastic enclosure 4-6 pilot devices	3SF5 900-0CB	
For AS-Interface connection via M12 connector for molded plastic enclosure 1-3 pilot devices	3SF5 900-0CC	
For AS-Interface connection via M12 connector for molded plastic enclosure 4-6 pilot devices	3SF5 900-0CD	
For AS-Interface connection via M12 connector for metal enclosure 1-3 pilot devices	3SF5 900-2CC	
For AS-Interface connection via M12 connector for metal enclosure 4-6 pilot devices	3SF5 900-2CD	
For routing unused inputs/outputs via M12 socket, for molded plastic enclosure 1-3 pilot devices	3SF5 900-0CE	
For routing unused inputs/outputs via M12 socket, for molded plastic enclosure 4-6 pilot devices	3SF5 900-0CF	
For routing unused inputs/outputs via M12 socket, for metal enclosure 1-3 pilot devices	3SF5 900-2CE	
For routing unused inputs/outputs via M12 socket, for metal enclosure 4-6 pilot devices	3SF5 900-2CF	
For AS-Interface formed cable, cable is routed inside the enclosure for molded plastic or metal enclosures 1-3 pilot devices	3SF5 900-0CG	
For AS-Interface formed cable, cable is routed inside the enclosure for molded plastic or metal enclosures 4-6 pilot devices	3SF5 900-0CH	
For round cable, cable is routed inside the enclosure for molded plastic or metal enclosures 1-3 pilot devices	3SF5 900-0CJ	
For round cable, cable is routed inside the enclosure for molded plastic or metal enclosures 4-6 pilot devices	3SF5 900-0CK	

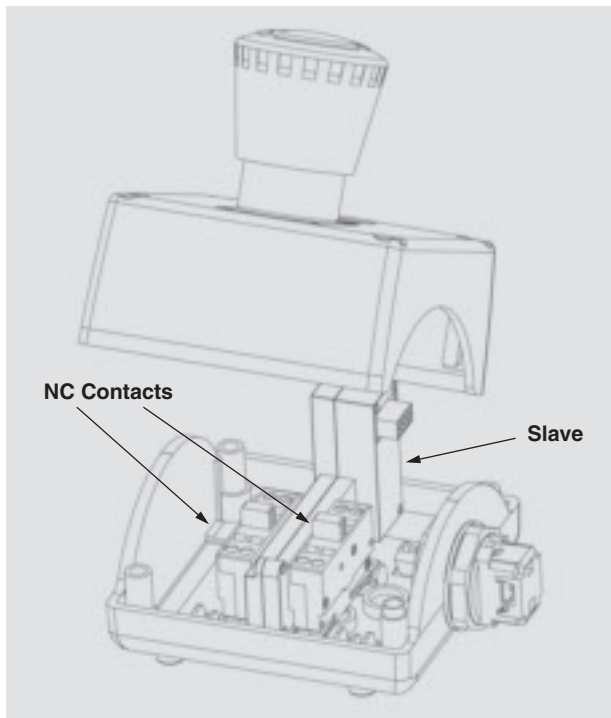
AS-Interface Slaves

SIRIUS Pushbuttons and Indicator Lights

CustomAS-Interface enclosures

Overview

There are two types of custom solutions for AS-Interface: The front panel module and the SIRIUS 3SB3 enclosed stations.



AS-Interface enclosure

Ordering data

Order No.

AS-Interface enclosure, molded plastic, can be used as required ¹⁾

- | | |
|------------------------|---------------------|
| • Two command points | 3SF5 812-0AZ |
| • Three command points | 3SF5 813-0AZ |
| • Four command points | 3SF5 814-0AZ |
| • Six command points | 3SF5 816-0AZ |

AS-Interface enclosure, metal, can be used as required ¹⁾

- | | |
|------------------------|---------------------|
| • Two command points | 3SF5 812-2AZ |
| • Three command points | 3SF5 813-2AZ |
| • Four command points | 3SF5 814-2AZ |
| • Six command points | 3SF5 816-2AZ |

1) Ordering example for AS-Interface enclosure, **molded plastic**, with four command points:

3SF5 814-4AZ

KOY

Configuration according to ordering form appendix for AS-Interface enclosure (- form for ordering form appendix, see Section *Options*)

Design

AS-Interface enclosure

The AS-Interface integrated enclosures include the contact blocks, LED lampholders (spring-loaded), and the slaves needed to network these devices to the AS-Interface network.

The following slave types are available for coupling the contact blocks and lampholders of the control devices:

- Save in A/B technology with 4 inputs and 3 outputs
- Slave with 4 inputs and 4 outputs
- F-slave with 2 safe inputs

The following table shows the maximum number of slaves that can be used:

Enclosure for	Number of slaves for enclosures without emergency stop	Number of slaves for enclosures with emergency stop
2 command points	1 x slave 4I/4O or 4I/3O	Not possible
3 command points	1 x slave 4I/4O or 4I/3O	1 x slave 4I/4O or 4I/3O + 1 x F slave
4 command points	2 x slave 4I/4O or 4I/3O ¹⁾	2 x slave 4I/4O or 4I/3O + 1 x F slave ¹⁾
6 command points	2 x slave 4I/4O or 4I/3O	2 x slave 4I/4O or 4I/3O + 1 x F slave

1) Only 1 x slave 4I/4O or 4I/3O possible for metal enclosures.

The type of desired slaves must be indicated on the order form appendix.

The module is addressed using the AS-Interface connections or the integrated addressing socket. It is not necessary to supply external power.

Enclosures with an emergency stop can be wired conventionally or with a safe AS-Interface slave.

For conventional wiring, an EMERGENCY STOP contact block can be interrogated by the AS-Interface.

Up to three contact blocks can be selected for the emergency stop if it is wired conventionally. If the emergency stop is interrogated by the AS-Interface, two contacts can be used for the safety circuit. (The middle contact position is taken by the slave.)

The following can be selected for connection of the AS-Interface bus:

- Terminal for trapezoidal-section AS-Interface cable. The cable is connected using the insulation piercing method and routed alongside the enclosure. (only possible with plastic enclosures)
- Cable glands for the trapezoidal-section AS-Interface cable or round cable. The cable is inserted into the enclosure
- Connection via M12 connector

All unassigned Inputs/Outputs can be accessed using the M12 connector. The M12 option can be factory or field installed. If factory installation is required, select 'Factory Modification' and specify pin assignment on the Custom Order Form.

To supply the inputs, the S+ connector of the slave must always be connected to the socket. For outputs, the OUT connector must be connected to the socket.

AS-Interface Slaves

SIRIUS Pushbuttons and Indicator Lights

Custom AS-Interface enclosures

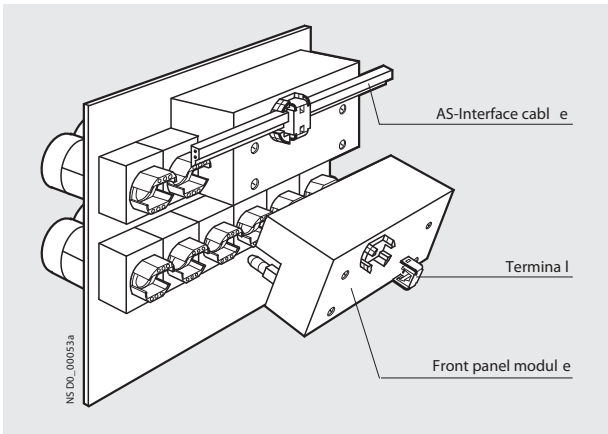
Design (continued)

AS-Interface front panel module

The front panel module contains one 4I/4O slave, four SIRIUS 3SB3 control devices, as well as, necessary mounting accessories.

The module is mounted on the rear of a group of four control devices arranged horizontally or vertically and fixed with screws. For mounting control devices, a grid pattern of 30 mm x 45 mm must be used. Contact is made with the trapezoidal section of the AS-Interface cable by means of a terminal on the rear of the module using the insulation piercing method.

The module is addressed using the AS-Interface connections or the integrated addressing socket.



AS-Interface front panel module

Ordering data

Order No.

AS-Interface front panel module, can be used as required ¹⁾

- Four command points

3SF5 874-4AZ

1) Ordering example for AS-Interface front panel module:
3SF5 874-4AZ

KOY

Configuration according to ordering form appendix for

AS-Interface front panel module (<- form for ordering form appendix, see Section *Options*)

Options

To order the custom AS-Interface solutions for the SIRIUS 3SB3 control stations, the corresponding order form must be completed.

The information needed on the custom order form is: the type of operators, contact blocks, lampholders, accessories (ie. labels). The codes in the custom code table, starting on page 10/106, should be used to complete the order form.

AS-Interface Slaves

SIRIUS Pushbuttons and Indicator Lights

Custom AS-Interface enclosures/ front panel modules

Options for AS-Interface enclosures and AS-Interface front plate modules (extra charge)

	Code for version/color of control elements						
	black	red	yellow	green	blue	white	clear
Pilot Devices ¹⁾ (extra charge)							
22.5 mm blank plug ²⁾	BV BK	–	–	–	–	–	–
Pushbutton with flat button	D BK	D RD	D YE	D GN	D BU	D WH	D CL
Illuminated pushbutton with flat button	–	DL RD	DL YE	DL GN	DL BU	DL WH	DL CL
Pushbutton with raised button	DH BK	DH RD	DH YE	DH GN	DH BU	DH WH	–
Illuminated pushbutton with raised button	–	DHL RD	DHL YE	DHL GN	DHL BU	–	DHL CL
Pushbutton with with raised front ring	DHF BK	DHF RD	DHF YE	DHF GN	DHF BU	DHF WH	–
Pushbutton with raised front ring, castellated	DFZ BK	DFZ RD	DFZ YE	DFZ GN	DFZ BU	DFZ WH	–
Pushbutton with flat button	DS BK	DS RD	DS YE	DS GN	DS BU	DS WH	–
Illuminated pushbutton with flat button	–	DLS RD	DL YE	DLS GN	DLS BU	DLS WH	DLS CL
Mushroom pushbutton, Ø 30 mm ²⁾	P30 BK	P30 RD	P30 YE	P30 GN	–	–	–
Illuminated mushroom pushbutton, Ø 30 mm ²⁾	–	–	PL30 YE	PL30 GN	–	PL30 WH	–
Mushroom pushbutton, Ø 40 mm ²⁾	P BK	P RD	P YE	P GN	–	–	–
Illuminated mushroom pushbutton, Ø 40 mm ²⁾	–	PL RD	PL YE	PL GN	–	–	–
Pushbutton with raised button, latches when depressed and turned clockwise, unlatches when turned anticlockwise ²⁾	DHR BK	DHR RD	–	–	–	–	–
EMERGENCY STOP mushroom pushbutton acc. to EN 418, Ø 40 mm, with positively-driven latching ²⁾							
• Rotate to the left to unlatch ²⁾	–	PRU 40 RD	–	–	–	–	–
• With RONIS lock, lock No. SB30 ²⁾	–	PRS 30 RD	–	–	–	–	–
• With CES lock, lock No. SSG10 ²⁾	–	PRS 10 RD	–	–	–	–	–
• With BKS lock, lock No. S1 ²⁾	–	PRS S1 RD	–	–	–	–	–
• With O.M.R., lock, lock No. 73037 ²⁾	–	PRS 73 RD	–	–	–	–	–
Indicator light	–	L RD	L YE	L GN	L BU	L WH	L CL
Push-pull button ²⁾							
• Ø 30 mm ²⁾	DZ 30 BK	DZ30 RD	–	–	–	–	–
• Ø 30 mm, can be illuminated ²⁾	–	DZB30 RD	DZB30 YE	DZB30 GN	DZB30 BU	–	DZB30 CL
• Ø 40 mm ²⁾	DZ BK	DZ RD	–	–	–	–	–
• Ø 40 mm, can be illuminated ²⁾	–	DZB RD	DZB YE	DZB GN	DZB BU	–	DZB CL







1) For more information on the pilot devices, see Section *Pushbuttons and Indicator Lamps / SIRIUS 3SB3 / Pushbuttons and Switches*.

2) Cannot be used for front plate module.

AS-Interface Slaves SIRIUS Pushbuttons and Indicator Lights

Custom AS-Interface enclosures/
front panel modules

Options for AS-Interface enclosures and AS-Interface front plate modules (extra charge) (continued)

	Code for version/color of control elements						
	black	red	yellow	green	blue	white	clear
Knob ¹⁾ (extra charge)							
 Switching sequence O-I latching							
• not illuminated	K1 BK	K1 RD	–	K1 GN	–	K1 WH	–
• illuminated	–	BK1 RD	BK1 YE	BK1 GN	BK1 BU	–	BK1 CL
 Switching sequence O-I momentary contact (with resetting from the right)							
• not illuminated	K2 BK	K2 RD	–	K2 GN	–	K2 WH	–
• illuminated	–	BK2 RD	BK2 YE	BK2 GN	BK2 BU	–	BK2 CL
 Switching sequence I-O-II latching							
• not illuminated	K4 BK	K4 RD	–	K4 GN	–	K4 WH	–
• illuminated	–	BK4 RD	BK4 YE	BK4 GN	BK4 BU	–	BK4 CL
 Switching sequence I-O-II momentary con- tact (with reset from the right and left)							
• not illuminated	K5 BK	K5 RD	–	K5 GN	–	K5 WH	–
• illuminated	–	BK5 RD	BK5 YE	BK5 GN	BK5 BU	–	BK5 CL
 Switching sequence I-O-II latching to the right, momentary con- tact to the left (with return from the left)	K6 BK	K6 RD	–	K6 GN	–	K6 WH	–
 Switching sequence I-O-II latching to the left, momentary con- tact to the right (with reset from the right)	K7 BK	K7 RD	–	K7 GN	–	K7 WH	–




1) For more information on the pilot devices,
see Section *Pushbuttons and Indicator Lamps / SIRIUS 3SB3 / Pushbuttons and Switches*.

AS-Interface Slaves

SIRIUS Pushbuttons and Indicator Lights

Custom AS-Interface enclosures/ front panel module

Options for AS-Interface enclosures and AS-Interface front plate modules (extra charge) (continued)




		Code for version/lock position for removing key						
		O	I	II	O and I	O and II	I and II	I, O and II
Locks ¹⁾ (extra charge)								
 Switching sequence O-I latching								
<ul style="list-style-type: none"> • RONIS type, flat <ul style="list-style-type: none"> - Lock No. SB30 • CES type <ul style="list-style-type: none"> - Lock No. SSG 10 - Lock No. LSG 1 • IKON type <ul style="list-style-type: none"> - Lock No. 360012 K1 • BKS type <ul style="list-style-type: none"> - Lock No. S1 - Lock No. E1 (for VW) - Lock No. E2 (for VW) - Lock No. E7 (for VW) - Lock No. E9 (for VW) • O.M.R. type, black <ul style="list-style-type: none"> - Lock No. 73034 		RSB 1A	RSB 1E	–	RSB 1AE	–	–	–
		CES 1A	CES 1E	–	CES 1AE	–	–	–
		CESL 1A	–	–	CESL 1AE	–	–	–
		Z-J 1A	–	–	Z-J 1AE	–	–	–
		BKS 1A	BKS 1E	–	BKS 1AE	–	–	–
		BKS A 1A	–	–	BKS A 1AE	–	–	–
		BKS E 1A	–	–	BKS E 1AE	–	–	–
		BKS C 1A	–	–	BKS C 1AE	–	–	–
		BKS B 1A	–	–	BKS B 1AE	–	–	–
		OMR BK 1A	OMR BK 1E	–	OMR BK 1AE	–	–	–
 Switching sequence O-I momentary con- tact (with resetting from the right)								
<ul style="list-style-type: none"> • RONIS type, flat <ul style="list-style-type: none"> - Lock No. SB30 • CES type <ul style="list-style-type: none"> - Lock No. SSG 10 - Lock No. LSG 1 • IKON type <ul style="list-style-type: none"> - Lock No. 360012 K1 • BKS type <ul style="list-style-type: none"> - Lock No. S1 • O.M.R. type, black <ul style="list-style-type: none"> - Lock No. 73034 		RSB 2A	–	–	–	–	–	–
		CES 2A	–	–	–	–	–	–
		CESL 2A	–	–	–	–	–	–
		Z-J 2A	–	–	–	–	–	–
		BKS 2A	–	–	–	–	–	–
		OMR BK 2A	–	–	–	–	–	–
 Switching sequence I-O-II latching								
<ul style="list-style-type: none"> • RONIS type, flat <ul style="list-style-type: none"> - Lock No. SB30 • CES type <ul style="list-style-type: none"> - Lock No. SSG 10 • IKON type <ul style="list-style-type: none"> - Lock No. 360012 K1 • BKS type <ul style="list-style-type: none"> - Lock No. S1 • O.M.R. type, black <ul style="list-style-type: none"> - Lock No. 73034 		RSB 4A	RSB 4E	RSB 4D	–	–	RSB 4ED	RSB 4EAD
		CES 4A	CES 4E	CES 4D	–	–	CES 4ED	CES 4EAD
		Z-J 4A	Z-J 4E	Z-J 4D	–	–	Z-J 4ED	Z-J 4EAD
		BKS 4A	BKS 4E	BKS 4D	–	–	BKS 4ED	BKS 4EAD
		OMR BK 4A	–	–	–	–	OMR BK 4ED	OMR BK 4EAD

1) For more information on the pilot devices, see Section *Pushbuttons and Indicator Lamps / SIRIUS 3SB3 / Pushbuttons and Switches*.

AS-Interface Slaves SIRIUS Pushbuttons and Indicator Lights

Custom AS-Interface enclosures/
front panel module

Options for AS-Interface enclosures and AS-Interface front plate modules (extra charge) (continued)

		Code for version/lock position for removing key						
		O	I	II	O and I	O and II	I and II	I, O and II
 <p>Switching sequence I-O-II momentary contact (with reset from the right and left)</p>	<ul style="list-style-type: none"> • RONIS type, flat <ul style="list-style-type: none"> - Lock No. SB30 	RSB 5A	-	-	-	-	-	-
	<ul style="list-style-type: none"> • CES type <ul style="list-style-type: none"> - Lock No. SSG 10 	CES 5A	-	-	-	-	-	-
	<ul style="list-style-type: none"> • IKON type <ul style="list-style-type: none"> - Lock No. 360012 K1 	Z-J 5A	-	-	-	-	-	-
	<ul style="list-style-type: none"> • BKS type <ul style="list-style-type: none"> - Lock No. S1 	BKS 5A	-	-	-	-	-	-
	<ul style="list-style-type: none"> • O.M.R. type, black <ul style="list-style-type: none"> - Lock No. 73034 	OMR BK 5A	-	-	-	-	-	-
 <p>Switching sequence I-O-II latching to the right, momentary con- tact to the left (with return from the left)</p>	<ul style="list-style-type: none"> • RONIS type, flat <ul style="list-style-type: none"> - Lock No. SB30 	RSB 6A	-	RSB 6D	-	RSB 6AD	-	-
	<ul style="list-style-type: none"> • CES type <ul style="list-style-type: none"> - Lock No. SSG 10 	CES 6A	-	CES 6D	-	CES 6AD	-	-
	<ul style="list-style-type: none"> • IKON type <ul style="list-style-type: none"> - Lock No. 360012 K1 	Z-J 6A	-	Z-J 6D	-	Z-J 6AD	-	-
	<ul style="list-style-type: none"> • BKS type <ul style="list-style-type: none"> - Lock No. S1 	BKS 6A	-	BKS 6D	-	BKS 6AD	-	-
	<ul style="list-style-type: none"> • O.M.R. type, black <ul style="list-style-type: none"> - Lock No. 73034 	OMR BK 6A	-	OMR BK 6D	-	OMR BK 6AD	-	-
 <p>Switching sequence I-O-II latching to the left, momentary con- tact to the right (with reset from the right)</p>	<ul style="list-style-type: none"> • RONIS type, flat <ul style="list-style-type: none"> - Lock No. SB30 	RSB 7A	RSB 7E	-	RSB 7AE	-	-	-
	<ul style="list-style-type: none"> • CES type <ul style="list-style-type: none"> - Lock No. SSG 10 	CES 7A	CES 7E	-	CES 7AE	-	-	-
	<ul style="list-style-type: none"> • IKON type <ul style="list-style-type: none"> - Lock No. 360012 K1 	Z-J 7A	Z-J 7E	-	Z-J 7AE	-	-	-
	<ul style="list-style-type: none"> • BKS type <ul style="list-style-type: none"> - Lock No. S1 	BKS 7A	BKS 7E	-	BKS 7AE	-	-	-
	<ul style="list-style-type: none"> • O.M.R. type, black <ul style="list-style-type: none"> - Lock No. 73034 	OMR BK 7A	OMR BK 7E	-	-	-	-	-

1) For more information on the pilot devices,
see Section *Pushbuttons and Indicator Lamps / SIRIUS 3SB3 / Pushbuttons and Switches*.

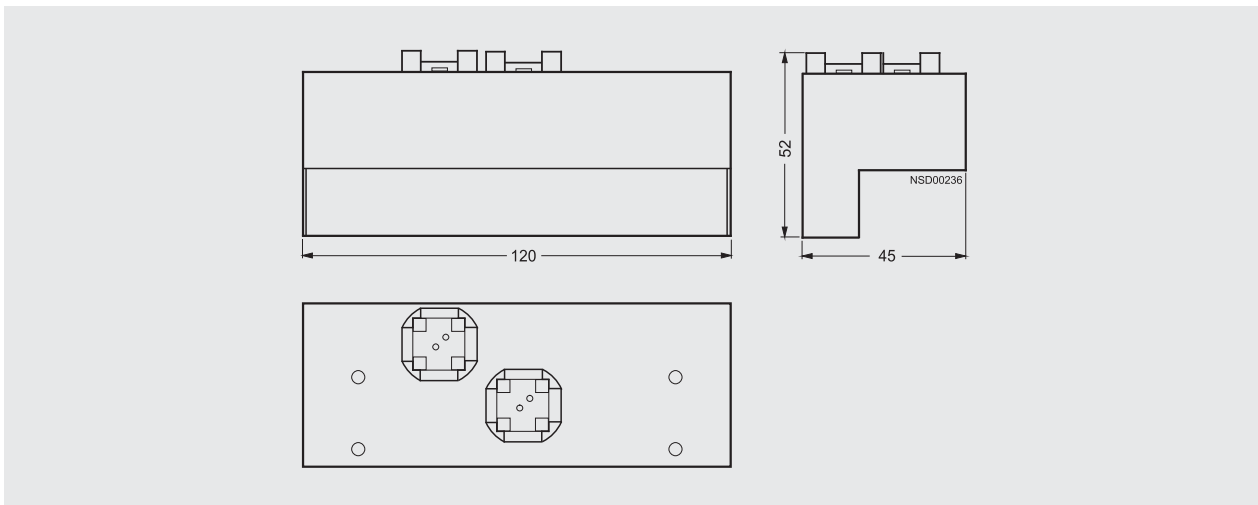
AS-Interface Slaves

SIRIUS Pushbuttons and Indicator Lights

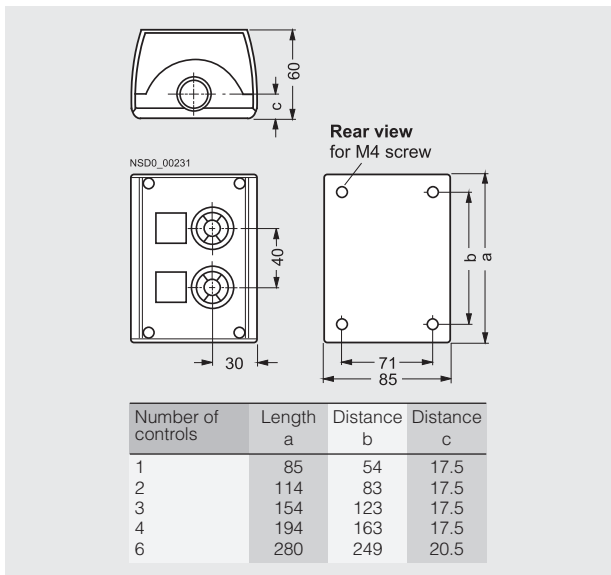
Custom AS-Interface enclosures/ front panel module

Ordering data	Order No.	List Price \$ 1 unit	Order No.	List Price \$ 1 unit
Switching elements and lampholders (extra charge)			Labels (extra charge)	
Switch blocks			Black identification plate	
• NO	–		• without inscription	–
• NC	–		• With inscription	–
Lampholder with LED			as backing plate for EMERGENCY-STOP	
Connection of the AS-Interface enclosures (extra charge)			AS-Interface slaves for enclosures	
Terminal for AS-Interface cable	–		Slave in A/B technology with 4 inputs and 3 outputs	–
Screwed cable glands for AS-Interface cable.	–		Slave with 4 inputs and 4 outputs	–
Screwed cable gland for round cable	–		Slave with 2 safe inputs for EMERGENCY OFF	–
M12 connector for AS-Interface connection	–			
M12 socket for free inputs/outputs	–			

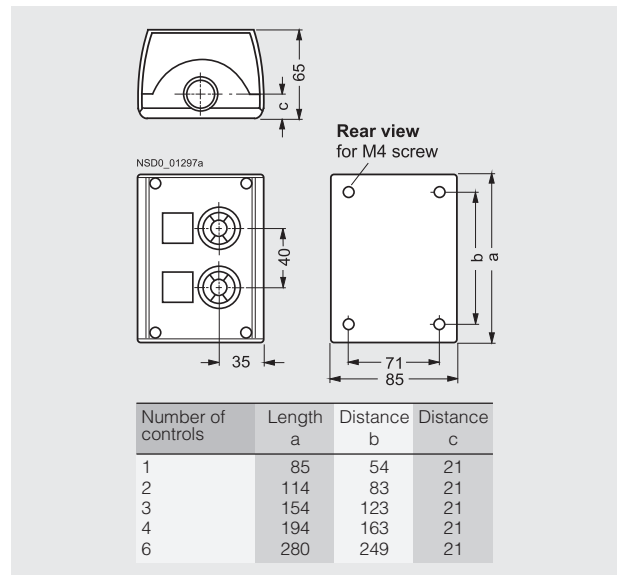
Dimension drawings



AS-Interface front panel module



Molded plastic enclosure



Molded plastic enclosure

Technical specifications

AS-Interface LEDs

Type of display	7-segment LED
Illumination color	Red or green
Operating voltage in V	24 V DC (for AS-Interface via AS-Interface bus)
Power consumption with digit height	
• 13 mm	0.15 W per digit
• 30 mm	0.3 W per digit
• Display with AS-Interface bus	0 to 9 and A, b, -, blank
Addressed	1 address per display with AS-Interface: after the 15th addressing procedure, the display retains the last address
Enclosure	Flush mounting enclosure acc. to DIN, metal

AS-Interface LEDs

Mounting technique	Screw clamps acc. to DIN
Degree of protection	IP54 on the front; with AS-Interface IP65
Ambient temperature	
• during operation in °C	0 ... +50
• during storage °C	-25 ... +70
EMC	Acc. to Guideline 89/336/EC (or EMVG)
Emitted interference	Basic technical standard EN 50 081-1, issue July 1993 product standard EN 55 011, Group 1/2, Class A, March 1991 issue, limit value characteristic identical to EN 55 022
Interference immunity	Basic technical standard EN 50 082-2, March 1995 issue

Additional information is available in the Internet under:



<http://www.siemens.de/bediensysteme>

Please use this address to request further technical data, function block example programs and GSD files.

Pushbutton Units and Indicator Lights

Class 50 Standard Duty Pushbutton Stations

• Revised •
03/20/2012

General

Features

- Snap In Legend Inserts
- Flush and Surface Mounted Types
- Convertible Selector
- Double Break Contacts
- Dual Voltage Pilot Light with Snap In Lens
- Conversion Kits
- UL Listed File #E22655
- CSA Certified File #LR6535

Application

Standard duty control stations are used with magnetic controllers to control the starting, stopping, reversing or speed of applicable motors.

Stations are assembled of one, two or three push button, selector switch or pilot light units in a variety of combinations to provide compact control units for remote control of magnetic starters and contactors.

Station enclosures are available in Type 1 surface mounted, 1B flush plate mounted and 4 watertight.

Features

Type 1 surface mounted bases are constructed of 14 gauge sheet steel, primed and finished in baked gray enamel. The base is predrilled to receive a variety of contact blocks, pilot lights and accessory devices. Covers are of 20 gauge sheet steel, wrap-around construction, primed and finished in baked gray enamel. Siemens Type 4 watertight heavy duty push button stations are supplied with a provision to padlock the stop button in the depressed position. Enclosures are predrilled and tapped for 3/4" conduit.

Contact blocks have double break, fine silver contacts with a NEMA B600 rating. Type 4 stations have a NEMA A600 rating.

The pilot light assembly is dual voltage with clearly marked pressure type terminals for 120 volt or 240 volt connection.

The lens of the pilot light snaps into the cover and is available in both red and green.

Push buttons are equipped with an operator into which a selected legend insert is snapped. Legend inserts are molded thermoplastic and come in a wide variety of legends and colors.

The selector switch operator can be instantly set for two or three positions at any time.

Mushroom Head

50ZMH mounts on any standard push button operator. The Mushroom Head is red molded thermoplastic, 1 1/2" in diameter, and provides a large operator for emergency stop or similar applications.

Mechanical Interlock

50ZAM is a base mounted zinc plate, dichromate dipped, steel assembly. When mounted in conjunction with Duplex Contact Block 50ZAC3 (one NO and one NO) the interlock prevents one contact from being closed while the other contact is closed.

Padlock Attachment Kit

50ZAL can be mounted to any Type 1 surface mounted station by the lower screw which fastens the cover to the station base. Made of heavy steel, chrome plated, the attachment provides for the padlocking of a push button in the depressed position or a selector switch in any position. When used with a push button operator, raised Legend Insert D53493003 (Red Stop) must be used.

Pendant Bracket

Adapts standard Type 1 surface mounted stations for suspension from a cable or chain. Bracket 50ZAP2 is used for one and two unit stations, 50ZAP3 for three unit stations.

Electrical Ratings

NEMA AC Ratings 50/60Hz

Nema B600 5 Continuous Amps

Volts	Make	Break
120	30	3
240	15	1.5
480	7.5	0.75
600	6	0.6
VA	3600	360

Ordering Information

- Legend Inserts see page 10/117.
- Accessories see page 10/117.



**2 Push Buttons
Surface Mounting, NEMA 1**



**2 Push Buttons
Flush Mounting, NEMA 1B**



**1 Push Button
Surface Mounting**



**1 Selector Switch
Flush Mounting**



**2 Push Buttons
1 Selector Switch**



**1 Pilot Light
2 Push Buttons**




• Revised •
03/20/2012

Pushbutton Units and Indicator Lights

Class 50 Standard Duty Pushbutton Stations

5A 600V AC NEMA B600

Selection and ordering data

	Operator identification	Degree of protection	Contacts / voltage	Number of command points	Order No.	List Price \$	Packs
						1 unit	Unit
 <p>1 unit surface mount-momentary pushbutton</p>	A = Momentary flush pushbutton green, surface, label "START"	NEMA 1	1NO - 1NC with common jumper (50ZAC1)	1	50AA3D		1
	A = Momentary flush pushbutton red, surface, label "STOP"	NEMA 1	1NO - 1NC with common jumper (50ZAC1)	1	50AA3E		1
	A = Momentary raised pushbutton red, surface, label "STOP"	NEMA 1	1NO - 1NC with common jumper (50ZAC1)	1	50AA3F		1
	A = Momentary mushroom head red, surface, label "STOP"	NEMA 1	1NO - 1NC with common jumper (50ZAC1)	1	50AA3G		1
	A = Momentary flush pushbutton less insert, surface	NEMA 1	1NO - 1NC with common jumper (50ZAC1)	1	50AA3A		1
	A = 3 position selector switch, surface, label "HAND-OFF-AUTO"	NEMA 1	2 NO 2SPST (50ZAC8)	1	50AA3C3		1
	A = 2 position selector switch, surface, label "Off-On"	NEMA 1	2 NO 2SPST (50ZAC8)	1	50AA3C6		1
	A = 2/3 selector switch, surface, multiple legends	NEMA 1	2 NO 2SPST (50ZAC8)	1	50AA3B9		1
	A = Indicator light, red, surface	NEMA 1	120/240V dual voltage 120PSB lamp	1	50BA3Y		1
	A = Indicator light, green, surface	NEMA 1	120/240V dual voltage 120PSB lamp	1	50BA3Z		1
A = Indicator light, less lens, surface	NEMA 1	120/240V dual voltage 120PSB lamp	1	50BA32		1	
A = Momentary flush pushbutton green, flush, label "START"	NEMA 1B	1NO - 1NC with common jumper (50ZAC1)	1	50AA2D		1	
 <p>1 unit flush mount-momentary pushbutton</p>	A = Momentary flush pushbutton red, flush, label "STOP"	NEMA 1B	1NO - 1NC with common jumper (50ZAC1)	1	50AA2E		1
	A = Momentary raised pushbutton red, flush, label "STOP"	NEMA 1B	1NO - 1NC with common jumper (50ZAC1)	1	50AA2F		1
	A = Momentary flush pushbutton less insert, flush	NEMA 1B	1NO - 1NC with common jumper (50ZAC1)	1	50AA2A		1
	A = Momentary flush pushbutton less insert, flush, chrome plate	NEMA 1B	1NO - 1NC with common jumper (50ZAC1)	1	50AA6A		1
	A = 3 position selector switch, flush, label "HAND-OFF-AUTO"	NEMA 1B	2 NO 2SPST (50ZAC8)	1	50AA2C3		1
	A = 3 position selector switch, flush, label "Off-On"	NEMA 1B	2 NO 2SPST (50ZAC8)	1	50AA2C6		1
	A = 2/3 selector switch, multiple legends, flush	NEMA 1B	2 NO 2SPST (50ZAC8)	1	50AA2B9		1
	A = 2/3 selector switch, multiple legends, chrome plate, flush	NEMA 1B	2 NO 2SPST (50ZAC8)	1	50AA6B9		1
	A = Indicator light, red, flush	NEMA 1B	120/240V dual voltage	1	50BA2Y		1
	A = Indicator light, green, flush	NEMA 1B	120/240V dual voltage	1	50BA2Z		1
A = Indicator light, less lens, flush	NEMA 1B	120/240V dual voltage	1	50BA22		1	
A = Indicator light, less lens, chrome plate, flush	NEMA 1B	120PSB lamp	1	50BA62		1	
 <p>2 unit surface mount-momentary pushbutton</p>	B = Momentary pushbutton green, surface, label "START"	NEMA 1	1NO, 1NC (50ZAC2)	2	50CA3DE		1
	A = Momentary pushbutton red, surface, label "STOP"						
	B = Momentary pushbutton green, surface, label "START"	NEMA 1	1NO, 1NC (50ZAC2)	2	50CA3DF		1
	A = Momentary raised pushbutton red, surface, label "STOP"						
	B = Momentary pushbutton green, surface, label "START"	NEMA 1	1NO, 1NC (50ZAC2)	2	50CA3DG		1
	A = Momentary mushroom head pushbutton red, surface, label "STOP"						
	B = Momentary pushbutton, less insert, surface	NEMA 1	1NO, 1NC (50ZAC2)	2	50CA3AA		1
	A = Momentary pushbutton, less insert, surface						
B = Momentary pushbutton, surface, label "FORWARD"	NEMA 1	2 NO (50ZAC3)	2	50DA3KL		1	
A = Momentary pushbutton, surface, label "REVERSE"							



Pushbutton Units and Indicator Lights

Class 50 Standard Duty Pushbutton Stations

• Revised •
03/20/2012

5A 600V AC NEMA B600

Selection and ordering data

	Operator identification	Degree of protection	Contacts / voltage	Number of command points	Order No.	List Price \$ 1 unit	Packs Unit
2 unit surface mount-momentary pushbutton 	B = Momentary pushbutton, surface, label "OPEN" A = Momentary pushbutton, surface, label "CLOSE"	NEMA 1	2 NO (50ZAC3)	2	50DA3HJ		1
	B = Momentary pushbutton, surface, label "UP" A = Momentary pushbutton, surface, label "DOWN"	NEMA 1	2 NO (50ZAC3)	2	50DA3NP		1
	B = Momentary pushbutton, surface, less insert A = Momentary pushbutton, surface, less insert	NEMA 1	2 NO (50ZAC3)	2	50DA3AA		1
	B = Momentary pushbutton, surface, label "FORWARD" A = Momentary pushbutton, surface, label "REVERSE"	NEMA 1	2 NO mechanically interlocked (50ZA3C w/ 50ZAM)	2	50RA3KL		1
	B = Momentary pushbutton, surface, label "OPEN" A = Momentary pushbutton, surface, label "CLOSE"	NEMA 1	2 NO mechanically interlocked (50ZA3C w/ 50ZAM)	2	50RA3HJ		1
	B = Momentary pushbutton, surface, label "UP" A = Momentary pushbutton, surface, label "DOWN"	NEMA 1	2 NO mechanically interlocked (50ZA3C w/ 50ZAM)	2	50RA3NP		1
	B = Momentary pushbutton, surface, label "ON" A = Momentary pushbutton, surface, label "OFF"	NEMA 1	2 NO mechanically interlocked (50ZA3C w/ 50ZAM)	2	50RA334		1
	B = Momentary pushbutton, less insert surface A = Momentary pushbutton, less insert, surface	NEMA 1	2 NO mechanically interlocked (50ZA3C w/ 50ZAM)	2	50RA3AA		1
	B = Momentary pushbutton, surface, label "FORWARD" A = Momentary pushbutton, surface, label "REVERSE"	NEMA 1	2 NO, 2 NC (2 - 50ZAC2)	2	50EA3KL		1
	B = Momentary pushbutton, surface, label "OPEN" A = Momentary pushbutton, surface, label "CLOSE"	NEMA 1	2 NO, 2 NC (2 - 50ZAC2)	2	50EA3HJ		1
	B = Momentary pushbutton, surface, label "UP" A = Momentary pushbutton, surface, label "DOWN"	NEMA 1	2 NO, 2 NC (2 - 50ZAC2)	2	50EA3NP		1
	B = Momentary pushbutton, surface, label "ON" A = Momentary pushbutton, surface, label "OFF"	NEMA 1	2 NO, 2 NC (2 - 50ZAC2)	2	50EA334		1
	B = Momentary pushbutton, surface, less insert A = Momentary pushbutton, surface, less insert	NEMA 1	2 NO, 2 NC (2 - 50ZAC2)	2	50EA3AA		1
	2 unit flush mount-momentary pushbutton 	B = Momentary pushbutton green, flush, label "START" A = Momentary pushbutton red, flush, label "STOP"	NEMA 1B	1NO, 1NC (50ZAC2)	2	50CA2DE	
B = Momentary pushbutton, less insert, flush A = Momentary pushbutton, less insert, flush		NEMA 1B	1NO, 1NC (50ZAC2)	2	50CA2AA		1
B = Momentary pushbutton green, flush, label "START" A = Momentary raised pushbutton red, flush, label "STOP"		NEMA 1B	1NO, 1NC (50ZAC2)	2	50CA2DF		1
B = Momentary pushbutton green, flush, label "START" A = Momentary mushroom head pushbutton red, flush, label "STOP"		NEMA 1B	1NO, 1NC (50ZAC2)	2	50CA2DG		1
B = Momentary pushbutton, less insert, flush A = Momentary pushbutton, less insert, flush		NEMA 1B	1NO, 1NC (50ZAC2)	2	50CA6AA		1

Selection and ordering data

	Operator identification	Degree of protection	Contacts / voltage	Number of command points	Order No.	List Price \$	Packs
						1 unit	Unit
2 unit flush mount-momentary pushbutton	B = Momentary pushbutton, flush, label "FORWARD" A = Momentary pushbutton, flush, label "REVERSE"	NEMA 1B	2 NO (50ZAC3)	2	50DA2KL		1
	B = Momentary pushbutton, flush, label "OPEN" A = Momentary pushbutton, flush, label "CLOSE"	NEMA 1B	2 NO (50ZAC3)	2	50DA2HJ		1
	B = Momentary pushbutton, flush, label "UP" A = Momentary pushbutton, flush, label "DOWN"	NEMA 1B	2 NO (50ZAC3)	2	50DA2NP		1
	B = Momentary pushbutton, less insert, flush A = Momentary pushbutton, less insert, flush	NEMA 1B	2 NO (50ZAC3)	2	50DA2AA		1
	B = Momentary pushbutton, less insert, chrome plate, flush A = Momentary pushbutton, less insert, chrome plate, flush	NEMA 1B	2 NO (50ZAC3)	2	50DA6AA		1
	B = Momentary pushbutton, flush, label "FORWARD" A = Momentary pushbutton, flush, label "REVERSE"	NEMA 1B	2 NO mechanically interlocked (50ZA3C w/ 50ZAM)	2	50RA2KL		1
	B = Momentary pushbutton, flush, label "OPEN" A = Momentary pushbutton, flush, label "CLOSE"	NEMA 1B	2 NO mechanically interlocked (50ZA3C w/ 50ZAM)	2	50RA2HJ		1
	B = Momentary pushbutton, flush, label "UP" A = Momentary pushbutton, flush, label "DOWN"	NEMA 1B	2 NO mechanically interlocked (50ZA3C w/ 50ZAM)	2	50RA2NP		1
	B = Momentary pushbutton, flush, label "ON" A = Momentary pushbutton, flush, label "OFF"	NEMA 1B	2 NO mechanically interlocked (50ZA3C w/ 50ZAM)	2	50RA234		1
	B = Momentary pushbutton, less insert, flush A = Momentary pushbutton, less insert, flush	NEMA 1B	2 NO mechanically interlocked (50ZA3C w/ 50ZAM)	2	50RA2AA		1
	B = Momentary pushbutton, less insert, chrome plate, flush A = Momentary pushbutton, less insert, chrome plate, flush	NEMA 1B	2 NO mechanically interlocked (50ZA3C w/ 50ZAM)	2	50RA6AA		1
	B = Momentary pushbutton, flush, label "FORWARD" A = Momentary pushbutton, flush, label "REVERSE"	NEMA 1B	2 NO, 2 NC (2 - 50ZAC2)	2	50EA2KL		1
	B = Momentary pushbutton, flush, label "OPEN" A = Momentary pushbutton, flush, label "CLOSE"	NEMA 1B	2 NO, 2 NC (2 - 50ZAC2)	2	50EA2HJ		1
	B = Momentary pushbutton, flush, label "UP" A = Momentary pushbutton, flush, label "DOWN"	NEMA 1B	2 NO, 2 NC (2 - 50ZAC2)	2	50EA2NP		1
	B = Momentary pushbutton, flush, label "ON" A = Momentary pushbutton, flush, label "OFF"	NEMA 1B	2 NO, 2 NC (2 - 50ZAC2)	2	50EA234		1
	B = Momentary pushbutton, less insert, flush A = Momentary pushbutton, less insert, flush	NEMA 1B	2 NO, 2 NC (2 - 50ZAC2)	2	50EA2AA		1
	B = Momentary pushbutton, less insert, chrome plate, flush A = Momentary pushbutton, less insert, chrome plate, flush	NEMA 1B	2 NO, 2 NC (2 - 50ZAC2)	2	50EA6AA		1

Pushbutton Units and Indicator Lights

Class 50 Standard Duty Pushbutton Stations


• Revised •
03/20/2012

5A 600V AC NEMA B600

Selection and ordering data

	Operator identification	Degree of protection	Contacts / voltage	Number of command points	Order No.	List Price \$ 1 unit	Packs Unit
2 unit surface mount-momentary pushbutton and selector switch	B = Momentary pushbutton green, surface, label "START"	NEMA 1	1NO, 1NC (50ZAC1)	2	50FA3DC3		1
	A = Maintained selector switch, surface, label "HAND-OFF-AUTO"		2 NO 2SPDT w/ common jumper (50ZAC8)				
	B = Momentary pushbutton less insert, surface	NEMA 1	1NO, 1NC (50ZAC1)	2	50FA3AB9		1
	A = Maintained selector switch, multiple legends, surface		2 NO 2SPDT w/ common jumper (50ZAC8)				
	B = Indicator light, red, surface	NEMA 1	120/240V dual voltage (120PSB lamp)	2	50HA3YC3		1
	A = Maintained selector switch, surface, label "HAND-OFF-AUTO"		2 NO 2SPDT w/ common jumper (50ZAC8)				
2 unit surface mount-momentary pushbutton and indicator light	B = Indicator light, red, surface	NEMA 1	120/240V dual voltage (120PSB lamp)	2	50HA32B9		1
	A = Maintained selector switch, multiple legends, surface		2 NO 2SPDT w/ common jumper (50ZAC8)				
	B = Indicator light, green, surface A = Indicator light, red, surface	NEMA 1	120/240V dual voltage (120PSB lamp)	2	50GA3ZY		1
	B = Indicator light, less lens, surface A = Indicator light, less lens, surface	NEMA 1	120/240V dual voltage (120PSB lamp)	2	50GA322		1
2 unit flush mount-momentary pushbutton and selector switch	B = Momentary pushbutton green, flush, label "START"	NEMA 1B	1NO, 1NC (50ZAC1)	2	50FA2DC3		1
	A = Maintained selector switch, flush, label "HAND-OFF-AUTO"		2 NO 2SPDT w/ common jumper (50ZAC8)				
	B = Momentary pushbutton less insert, flush A = Maintained selector switch, multiple legends, flush	NEMA 1B	1NO, 1NC (50ZAC1)	2	50FA2AB9		1
	B = Momentary pushbutton less insert chrome plate, flush A = Maintained selector switch, multiple legends, flush	NEMA 1B	1NO, 1NC (50ZAC1)	2	50FA6AB9		1
	B = Indicator light, red, flush A = Maintained selector switch, flush, label "HAND-OFF-AUTO"	NEMA 1B	120/240V dual voltage (120PSB lamp) 2 NO 2SPDT w/ common jumper (50ZAC8)	2	50HA2YC3		1
	B = Indicator light, less lens, flush A = Maintained selector switch, multiple legends, flush	NEMA 1B	120/240V dual voltage (120PSB lamp) 2 NO 2SPDT w/ common jumper (50ZAC8)	2	50HA22B9		1
	B = Indicator light, less lens, chrome plate, flush A = Maintained selector switch, multiple legends, flush	NEMA 1B	120/240V dual voltage (120PSB lamp) 2 NO 2SPDT w/ common jumper (50ZAC8)	2	50HA62B9		1
	B = Indicator light, green, flush A = Indicator light, red, flush	NEMA 1B	120/240V dual voltage (120PSB lamp)	2	50GA2ZY		1
	B = Indicator light, less lens, flush A = Indicator light, less lens, flush	NEMA 1B	120/240V dual voltage (120PSB lamp)	2	50GA222		1
	B = Indicator light, less lens, chrome plate, flush A = Indicator light, less lens, chrome plate, flush	NEMA 1B	120/240V dual voltage (120PSB lamp)	2	50GA622		1
3 unit surface mount-momentary pushbutton	C = Momentary pushbutton, surface, label "FORWARD"	NEMA 1	2 NO, 2 NC (2 - 50ZAC2) 1NO - 1NC with common jumper (50ZAC1)	3	50MA3KLE		1
	B = Momentary pushbutton, surface, label "REVERSE"						
	A = Momentary pushbutton, surface, label "STOP"						
	C = Momentary pushbutton, surface, label "UP"	NEMA 1	2 NO, 2 NC (2 - 50ZAC2) 1NO - 1NC with common jumper (50ZAC1)	3	50MA3NPE		1
	B = Momentary pushbutton, surface, label "DOWN"						
	A = Momentary pushbutton, surface, label "STOP"						
	C = Momentary pushbutton, surface, label "OPEN"	NEMA 1	2 NO, 2 NC (2 - 50ZAC2) 1NO - 1NC with common jumper (50ZAC1)	3	50MA3HJE		1
	B = Momentary pushbutton, surface, label "CLOSE"						
	A = Momentary pushbutton, surface, label "STOP"						

Selection and ordering data

	Operator identification	Degree of protection	Contacts / voltage	Number of command points	Order No.	List Price \$ 1 unit	Packs Unit
3 unit surface mount-momentary pushbutton	C = Momentary pushbutton, surface, label "FAST"	NEMA 1	2 NO, 2 NC (2 - 50ZAC2) 1NO - 1NC with common jumper (50ZAC1)	3	50MA3TUE		1
	B = Momentary pushbutton, surface, label "SLOW"						
	A = Momentary pushbutton, surface, label "STOP"						
	C = Momentary pushbutton, surface, label "START"	NEMA 1	2 NO, 2 NC (2 - 50ZAC2) 1NO - 1NC with common jumper (50ZAC1)	3	50MA3DME		1
	B = Momentary pushbutton, surface, label "JOG"						
	A = Momentary pushbutton, surface, label "STOP"						
	C = Momentary pushbutton, surface, label less insert	NEMA 1	2 NO, 2 NC (2 - 50ZAC2) 1NO - 1NC with common jumper (50ZAC1)	3	50MA3AAA		1
	B = Momentary pushbutton, surface, label less insert						
	A = Momentary pushbutton, surface, label less insert						
3 unit surface mount-momentary pushbutton and selector switch	C = Momentary pushbutton, surface, label "START"	NEMA 1	1 NO, 1 NC (50ZAC2) 2 NO, 2 SPST with common jumper (50ZAC8)	3	50LA3DEC3		1
	B = Momentary pushbutton, surface, label "STOP"						
	A = Maintained selector switch, surface, label "HAND-OFF-AUTO"						
	C = Momentary pushbutton, less insert, surface	NEMA 1	1 NO, 1 NC (50ZAC2) 2 NO, 2 SPST with common jumper (50ZAC8)	3	50LA3AAB9		1
	B = Momentary pushbutton, less insert, surface						
	A = Maintained selector switch, multiple legends, surface						
3 unit surface mount-momentary pushbutton and indicator light	C = Indicator light, red, surface	NEMA 1	120/240V dual voltage (120PSB lamp) 1 NO, 1 NC (50ZAC2)	3	50JA3YDE		1
	B = Momentary pushbutton, surface, label "START"						
	A = Momentary pushbutton, surface, label "STOP"						
	C = Indicator light, green, surface	NEMA 1	120/240V dual voltage (120PSB lamp) 1 NO, 1 NC (50ZAC2)	3	50JA3ZDE		1
	B = Momentary pushbutton, surface, label "START"						
	A = Momentary pushbutton, surface, label "STOP"						
	C = Indicator light, less lens, surface	NEMA 1	120/240V dual voltage (120PSB lamp) 1 NO, 1 NC (50ZAC2)	3	50JA32AA		1
	B = Momentary pushbutton, less insert, surface						
	A = Momentary pushbutton, less insert, surface						
	C = Indicator light, green, surface	NEMA 1	120/240V dual voltage (120PSB lamp) 2 NO, 2 SPST with common jumper (50ZAC8)	3	50NA3ZYC3		1
	B = Indicator light, red, surface						
	A = Maintained selector switch, surface, label "HAND-OFF-AUTO"						
	C = Indicator light, less lens, surface	NEMA 1	120/240V dual voltage (120PSB lamp) 2 NO, 2 SPST with common jumper (50ZAC8)	3	50NA322B9		1
	B = Indicator light, less lens, surface						
	A = Maintained selector switch, multiple legends, surface						




Pushbutton Units and Indicator Lights

Class 50 Standard Duty Pushbutton Stations

• Revised •
03/20/2012

Heavy duty - 10A 600V AC NEMA A600

Selection and ordering data

	Degree of protection	Contacts / voltage	Number of command points	Order No.	List Price \$ 1 unit	Packs Unit
Operator identification						
	A = Momentary pushbutton green, surface, label "START"	NEMA 4	1NO - 1NC	1	50HA1E1	1
	A = Momentary pushbutton red, surface, label "STOP"	NEMA 4	1NO - 1NC	1	50HA1E2	1
	A = Momentary pushbutton green, surface, label "RESET"	NEMA 4	1NO - 1NC	1	50HA1E4	1
	A = Momentary pushbutton green, surface, label "JOG"	NEMA 4	1NO - 1NC	1	50HA1E5	1
	A = Maintained selector switch, surface, label "SAFE-RUN"	NEMA 4	1NO - 1NC	1	50HA1E6	1
	A = Maintained selector switch, surface, label "OFF-ON"	NEMA 4	1NO - 1NC	1	50HA1E7	1
	A = Maintained selector switch, surface, label "JOG-RUN"	NEMA 4	1NO - 1NC	1	50HA1E8	1
	A = Maintained selector switch, surface, label "HAND-OFF-AUTO"	NEMA 4	1NO - 1NC	1	50HA1E9	1
		B = Momentary pushbutton green, surface, label "START"	NEMA 4	1NO - 1NC	2	50HA2E1
A = Momentary pushbutton red, surface, label "STOP"			1NO - 1NC			
B = Momentary pushbutton green, surface, label "FORWARD"		NEMA 4	1NO - 1NC	2	50HA2E2	1
A = Momentary pushbutton red, surface, label "REVERSE"			1NO - 1NC			
B = Momentary pushbutton green, surface, label "UP"		NEMA 4	1NO - 1NC	2	50HA2E3	1
A = Momentary pushbutton red, surface, label "DOWN"			1NO - 1NC			
B = Momentary pushbutton green, surface, label "OPEN"		NEMA 4	1NO - 1NC	2	50HA2E4	1
A = Momentary pushbutton red, surface, label "CLOSE"			1NO - 1NC			
B = Momentary pushbutton green, surface, label "FAST"		NEMA 4	1NO - 1NC	2	50HA2E5	1
A = Momentary pushbutton red, surface, label "SLOW"			1NO - 1NC			
	C = Momentary pushbutton green, surface, label "FORWARD"	NEMA 4	1NO - 1NC	3	50HA3E1	1
	B = Momentary pushbutton green, surface, label "REVERSE"		1NO - 1NC			
	A = Momentary pushbutton red, surface, label "STOP"		1NO - 1NC			
	C = Momentary pushbutton green, surface, label "UP"	NEMA 4	1NO - 1NC	3	50HA3E2	1
	B = Momentary pushbutton green, surface, label "DOWN"		1NO - 1NC			
	A = Momentary pushbutton red, surface, label "STOP"		1NO - 1NC			
	C = Momentary pushbutton green, surface, label "OPEN"	NEMA 4	1NO - 1NC	3	50HA3E3	1
	B = Momentary pushbutton green, surface, label "CLOSE"		1NO - 1NC			
	A = Momentary pushbutton red, surface, label "STOP"		1NO - 1NC			
	C = Momentary pushbutton green, surface, label "START"	NEMA 4	1NO - 1NC	3	50HA3E9	1
	B = Momentary pushbutton green, surface, label "JOG"		1NO - 1NC			
	A = Momentary pushbutton red, surface, label "STOP"		1NO - 1NC			
	C = Momentary pushbutton green, surface, label "FAST"	NEMA 4	1NO - 1NC	3	50HA3E4	1
	B = Momentary pushbutton green, surface, label "SLOW"		1NO - 1NC			
	A = Momentary pushbutton red, surface, label "STOP"		1NO - 1NC			

• Revised •
03/20/2012

Pushbutton Units and Indicator Lights





Class 50 Standard Duty Pushbutton Stations

Standard duty station accessories

Selection and ordering data

Legend inscription insert for snap-on mounting

Inscription	Color	Order No.	List Price \$ 1 unit	Pack Unit
Close	Orange	50D53493005		1
Down	Orange	50D53493010		1
Fast	Black	50D53493013		1
Forward	Green	50D53493006		1
High	Black	50D53493015		1
Hoist	Green	50D53493011		1
Jog	Black	50D53493008		1
Low	Black	50D53493016		1
Lower	Orange	50D53493012		1
Off	Red	50D53493018		1
On	Green	50D53493017		1
Open	Green	50D53493004		1
Reverse	Orange	50D53493007		1
Slow	Black	50D53493014		1
Start	Green	50D53493001		1
Stop	Red	50D53493002		1
Stop (raised)	Red	50D53493003		1
Up	Green	50D53493009		1

Version	Suitable for	Color	Order No.	List Price \$ 1 unit	Pack Unit
 50ZAC1	Mushroom head	Red	50ZMH		1
 50ZAC2	Padlock attachment	Used only for raised buttons	50ZAL		1
 50ZAC8	Mechanical interlock kit		50ZAM		1
 50ZAC3	Contact blocks				
	1NO, 1NC	Single button	50ZAC1		1
	2NO, 2SPST	Selector switch	50ZAC8		1
	1NO, 1NC	Two button	50ZAC2		1
	1NO, 1NO	Two button	50ZAC3		1
	Pilot light	120/240V Dual Voltage, no lens	50ZAC6		1
	Pilot light lens	Red	50ZPL01		1
		Green	50ZPL02		1
	Pendant Bracket	1 & 2 unit station	50ZAP2		1
		3 unit station	50ZAP3		1
	Replacement lamps	Class 50 type 1, 1B 120V	50D21983001		1
	Slide base, lamp type 120PSB				

Heavy duty station accessories

Version	Suitable for	Color	Order No.	List Price \$ 1 unit	Pack Unit
	Pushbutton caps				
	NEMA 4 control stations	Red	BHP15X		1
	NEMA 4 control stations	Black	BHP16X		1

Pushbutton Units and Indicator Lights

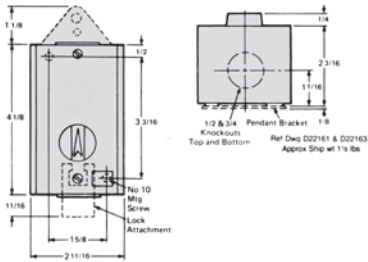
Class 50 Standard Duty Pushbutton Stations

• Revised •
03/20/2012

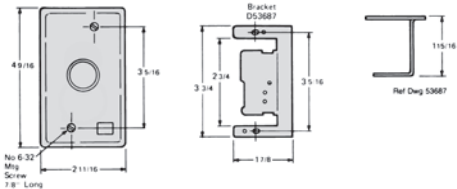
Standard duty - 5A 600V AC NEMA B600

Dimension drawings

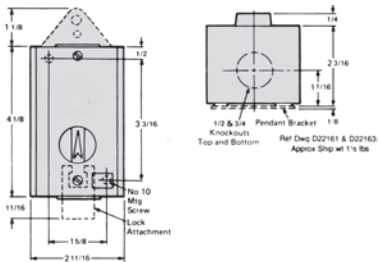
1 Unit Station Surface Mounting—Type 1



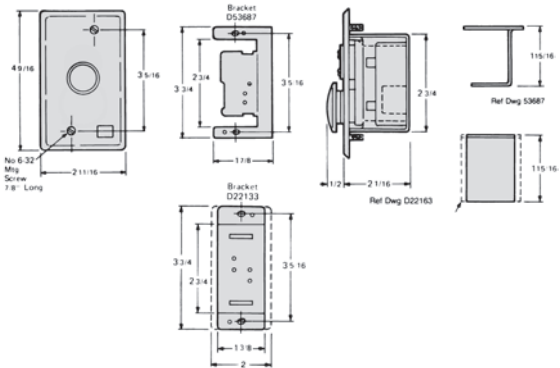
1 Unit Station Flush Mounting—Type 1B



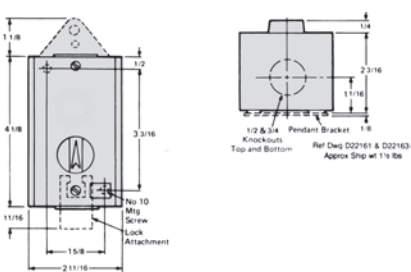
2 Pushbutton Stations Surface Mounting—Type 1



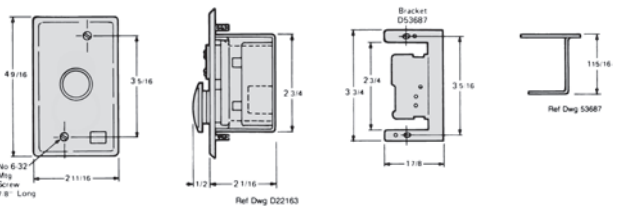
2 Pushbutton Stations Flush Mounting—Type 1B



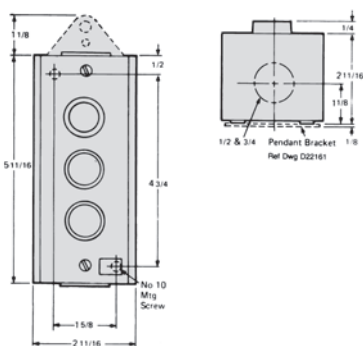
2 Unit Stations Surface Mounting—Type 1



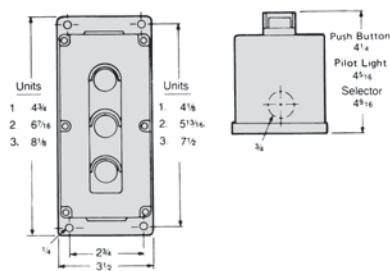
2 Unit Station Flush Mounting—Type 1B



3 Unit Stations Surface Mounting



1 Unit Stations—Type 4



Pushbutton Units and Indicator Lights

Class 51 Pilot Devices

Hazardous location

Features

- UL Listed and cUL Listed for Class I, Groups C & D and Class II, Groups E, F & G
- Short or Long Bushing Lengths
- Mount into 3/4-14 NPSM Threaded Hole
- Sealing Lock Nut
- Similar in Appearance to Class 52 Oil Tight Pilot Devices
- Double Break Bifurcated Contacts Rated AC NEMA A600, DC NEMA P600
- Angled Terminals and Self Rising Saddle Clamps
- UL Listed File # E39935

Application

When properly installed in a Type 7 & 9 enclosure, these components meet the National Electrical Code's requirements for Class I, Division 1 & 2, Groups C and D hazardous gases, Class II, Division 1, Groups E, F and G hazardous dust, and Class III, hazardous fibers and flyings. Class 51 pilot devices may be used in a location where the presence of flammable gases, vapors or finely pulverized dusts in the atmosphere are sufficient to create a threat of explosion or fire. They may also be required where easily ignitable fibers or flyings are present. Short bushing units are used in most standard Type 7 & 9 enclosures. Long bushings are used when an additional front panel is required or in enclosures up to 2 1/8 inches thick. Class 51 devices also meet Type 4 applications.

Rugged

Hazardous location control units are durable one piece castings of a corrosion resistant copper free aluminum alloy with stainless steel springs and type 316 stainless steel shafts to provide a long dependable life. The "O" ring ensures the longest seal life available. Contact blocks have double break bifurcated contacts for increased reliability.

Flexible

Control units mount into industry standard 3/4-14 NPSM threaded holes. Both short bushings for enclosure mounting and long bushings for panel mounting are available. Pilot light bulbs are re-movable from the front

for ease of maintenance. Many common parts between the Class 51 hazardous location pilot devices and the Class 52 oil tight pilot devices allow for increased serviceability with fewer parts.

Industrial Appearance

Hazardous location control units add luster to panels. They are uniform in appearance and match 52 Class oil tight pilot devices.

Typical Applications

Class I

- Petroleum refineries, and gasoline storage and dispensing areas.
- Industrial firms that use flammable liquids in dip tanks for parts cleaning or other operations.
- Petrochemical companies that manufacture chemicals from gas and oil.
- Dry cleaning plants where vapors from cleaning fluids may be present.
- Companies that have spraying areas where they coat products with paint or plastics
- Aircraft hangars and fuel servicing areas.
- Utility gas plants, and operations involving storage and handling of liquefied petroleum gas or natural gas.

Class II

- Grain elevators, flour and feed mills.
- Plants that manufacture, use or store magnesium or aluminum powders.
- Plants that have chemical or metallurgical processes, producers of plastics, medicines and fireworks, etc.
- Spice grinding plants, sugar plants and cocoa plants.
- Coal preparation plants and other carbon handling or processing areas.

Class III

- Textile mills, cotton gins, cotton seed mills and flax processing plants.
- Any plant that shapes, pulverizes or cuts wood and creates sawdust or flyings.

Electrical Ratings

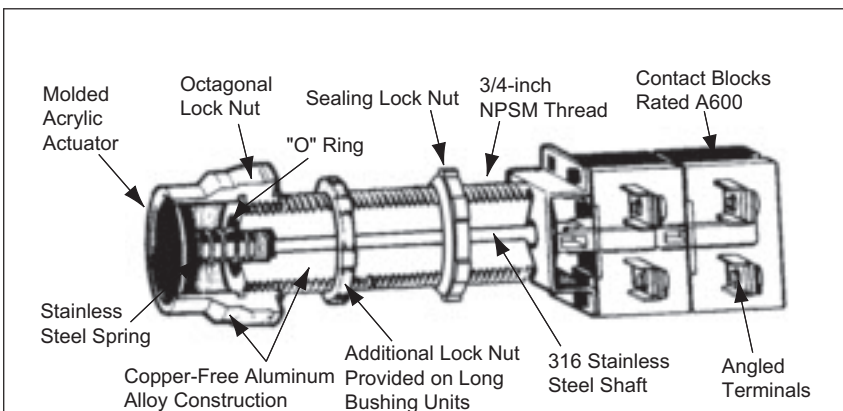
NEMA AC Ratings 50/60Hz

Nema A600 10 Continuous Amps

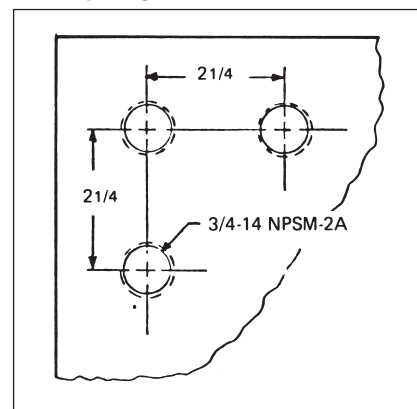
Volts	Make	Break
120	60	6
240	30	3
480	15	1.5
600	12	1.2
VA	7200	720

Ordering Information

- Accessories see page 10/129-10/130.
- Selector Operating Position and Contact Operation page 10/127.
- Legend Plates see page 10/161.
- Enclosures see page 10/128.



Panel Spacing









Pushbutton Units and Indicator Lights

Class 51, Hazardous Location NEMA Type 7 & 9 Devices

Operators only

Selection and ordering data


Version	Color of operator	Contacts	Short bushing Order No.	List Price \$ 1 unit	Long bushing Order No.	List Price \$ 1 unit	Pack Unit	
Pushbutton with flat cap 	Pushbutton with flush cap		Black Red Green	51PA8A1 51PA8A2 51PA8A3	51PA8A1LB 51PA8A2LB 51PA8A3LB		1 1 1	
	Pushbutton with extended cap 	Pushbutton with extended cap		Black Red Green	51PA8B1 51PA8B2 51PA8B3	51PA8B1LB 51PA8B2LB 51PA8B3LB	1 1 1	
		Dual Pushbutton		Flush Black Raised Red	51PD8A1B2	51PD8A1B2LB		1
Pushbutton with mushroom cap 1 5/8" (41.3mm) 				Black Red Green	51PA9D1 51PA9D2 51PA9D3	51PA9D1LB 51PA9D2LB 51PA9D3LB		1 1 1
	Pushbutton with mushroom cap 2 1/2" (63.5mm) 			Black Red Green Less head	51PA9E1 51PA9E2 51PA9E3 51PA9	51PA9E1LB 51PA9E2LB 51PA9E3LB 51PA9LB		1 1 1 1
		2 position push-pull 	2 Position Push Pull Maintained, Non Illuminated Small Plastic Mushroom Head, 1 5/8" (41.3 mm)		Black Red Green	51PA2D1 51PA2D2 51PA2D3	51PA2D1LB 51PA2D2LB 51PA2D3LB	
Large Plastic Mushroom Head, 2 1/4" (57.2 mm)			Black Red Green Less head	51PA2E1 51PA2E2 51PA2E3 51PA2	51PA2E1LB 51PA2E2LB 51PA2E3LB 51PA2LB		1 1 1 1	
2 Position Push Pull Maintained, Non Illuminated Small Mushroom Head, 1 5/8" (41.3mm)			Black Red Green	1NC + 1NO 1NC + 1NO 1NC + 1NO	51PA2D1A 51PA2D2A 51PA2D3A	51PA2D1LBA 51PA2D2LBA 51PA2D3LBA		1 1 1
Large Mushroom Head, 2 1/2" (63.5mm)		Black Red Green	1NC + 1NO 1NC + 1NO 1NC + 1NO	51PA2E1A 51PA2E2A 51PA2E3A	51PA2E1LBA 51PA2E2LBA 51PA2E3LBA		1 1 1	
3 position push-pull 	3 Position Push Pull Momentary, Non Illuminated Small Mushroom Head, 1 5/8" (41.3mm)		Black Red Green	1NC + 1NO 1NC + 1NO 1NC + 1NO	51PA3A1U 51PA3A2U 51PA3A3U	51PA3A1ULB 51PA3A2ULB 51PA3A3ULB		1 1 1

Pushbutton Units and Indicator Lights

Class 51, Hazardous Location NEMA Type 7 & 9 Devices

Indicator light

Selection and ordering data

Version	Color of operator	Contacts	Short bushing Order No.	List Price \$ 1 unit	Long bushing Order No.	List Price \$ 1 unit	Pack Unit
Indicator light - full voltage 	Indicator light with glass lens - Full voltage type AC/DC (with 6" pigtail leads) ^{1) 3)} Operators with Incandescent Lamp		Red	51PC5B2	51PC5B2LB	1	6-8V with 755 type
	Green	51PC5B3	51PC5B3LB	Less lens	51PC5B9LB	1	
	Amber	51PC5B9	51PC5B9LB				
	Less lens	51PC5BN	51PC5BNLB				
	12V with 756 type		Red	51PC5C2	51PC5C2LB		1
	Amber	51PC5C3	51PC5C3LB				
	Green	51PC5C9	51PC5C9LB				
	Less lens	51PC5CN	51PC5CNLB				
	24V with 757 type		Red	51PC5D2	51PC5D2LB	1	Operators with LED Lamp ²⁾ 6-8V with BA9 type LED
	Green	51PC5D3	51PC5D3LB				
	Amber	51PC5D9	51PC5D9LB				
	Less lens	51PC5DN	51PC5DNLB				
24V with BA9 type LED		Red	51PE5B2	51PE5B2LB	1	24V with BA9 type LED	
Green	51PE5B3	51PE5B3LB					
Amber	51PE5B9	51PE5B9LB					
Less lens	51PE5D2	51PE5D2LB					
Indicator light with glass lens - Transformer type AC/DC ^{1) 3)} Operators with Incandescent Lamp		Red	51PC5G2	51PC5G2LB	1	120V with 6V 755 type lamp	
Green	51PC5G3	51PC5G3LB					
Amber	51PC5G9	51PC5G9LB					
Less lens	51PC5GN	51PC5GNLB					
240V with 6V 755 type lamp		Red	51PC5H2	51PC5H2LB	1	480V with 6V 755 type lamp	
Green	51PC5H3	51PC5H3LB					
Amber	51PC5H9	51PC5H9LB					
Less lens	51PC5HN	51PC5HNLB					
480V with 6V 755 type lamp		Red	51PC5J2	51PC5J2LB	1	600V with 6V 755 type lamp	
Green	51PC5J3	51PC5J3LB					
Amber	51PC5J9	51PC5J9LB					
Less lens	51PC5JN	51PC5JNLB					
600V with 6V 755 type lamp		Red	51PC5K2	51PC5K2LB	1	Operators with LED Lamp ²⁾ 120V with 6V BA9 type LED	
Green	51PC5K3	51PC5K3LB					
Amber	51PC5K9	51PC5K9LB					
Less lens	51PC5KN	51PC5KNLB					
240V with 6V BA9 type LED		Red	51PE5G2	51PE5G2LB	1	240V with 6V BA9 type LED	
Green	51PE5G3	51PE5G3LB					
Amber	51PE5G9	51PE5G9LB					
Less lens	—	—					
480V with 6V BA9 type LED		Red	51PE5H2	51PE5H2LB	1	480V with 6V BA9 type LED	
Green	51PE5H3	51PE5H3LB					
Amber	51PE5H9	51PE5H9LB					
Less lens	—	—					
600V with 6V BA9 type LED		Red	51PE5J2	51PE5J2LB	1	600V with 6V BA9 type LED	
Green	51PE5J3	51PE5J3LB					
Amber	51PE5J9	51PE5J9LB					
Less lens	—	—					
600V with 6V BA9 type LED		Red	51PE5K2	51PE5K2LB	1	24V BA9 type LED lamp ²⁾	
Green	51PE5K3	51PE5K3LB					
Amber	51PE5K9	51PE5K9LB					
Less lens	—	—					
Indicator light with glass lens - Resistor type AC/DC* 120V with 24V 757 type lamp		Red	51PC5M2	51PC5M2LB	1	24V BA9 type LED lamp ²⁾	
Green	51PC5M3	51PC5M3LB					
Amber	51PC5M9	51PC5M9LB					
Less lens	51PC5MN	51PC5MNLB					
24V BA9 type LED lamp ²⁾		Red	51PE5M2	51PE5M2LB	1	24V BA9 type LED lamp ²⁾	
Green	51PE5M3	51PE5M3LB					
Amber	51PE5M9	51PE5M9LB					
Less lens	—	—					

1) For other colors not listed, order operator less lens and separate lens from page 10/127.

2) LED color must match lens color.



3) All illuminated devices come with std. Touch-safe shield per UL stds.

Pushbutton Units and Indicator Lights



Class 51, Hazardous Location NEMA Type 7 & 9 Devices

Push to test complete units

Selection and ordering data

Version	Color of operator	Contacts	Short bushing Order No.	List Price \$ 1 unit	Long bushing Order No.	List Price \$ 1 unit	Pack Unit	
Push to test full voltage 	Push to test/Illuminated pushbutton with glass lens - Full voltage type AC/DC ^{1) 3)}							
	Red	1NO + 1NC	51PC6B2A		51PC6B2ALB		1	
	Green	1NO + 1NC	51PC6B3A		51PC6B3ALB		1	
	Amber	1NO + 1NC	51PC6B9A		51PC6B9ALB		1	
	Less lens	1NO + 1NC	51PC6BNA		51PC6BNALB		1	
	Operators with Incandescent Lamp 6V with 755 type lamp							
	24V with 757 type lamp							
	Red	1NO + 1NC	51PC6D2A		51PC6D2ALB		1	
	Amber	1NO + 1NC	51PC6D3A		51PC6D3ALB		1	
	Green	1NO + 1NC	51PC6D9A		51PC6D9ALB		1	
	Less lens	1NO + 1NC	51PC6DNA		51PC6DNALB		1	
	Operators with LED Lamp ²⁾ 6-8V with BA9 type LED							
Red	1NO + 1NC	51PE6B2A		51PE6B2ALB		1		
Green	1NO + 1NC	51PE6B3A		51PE6B3ALB		1		
Amber	1NO + 1NC	51PE6B9A		51PE6B9ALB		1		
24V with BA9 type LED								
Red	1NO + 1NC	51PE6D2A		51PE6D2ALB		1		
Green	1NO + 1NC	51PE6D3A		51PE6D3ALB		1		
Amber	1NO + 1NC	51PE6D9A		51PE6D9ALB		1		
Push to test transformer type 	Push to test/Illuminated pushbutton with glass lens - Transformer type (50/60 Hz) ^{1) 3)}							
	Red	1NO + 1NC	51PC6G2A		51PC6G2ALB		1	
	Green	1NO + 1NC	51PC6G3A		51PC6G3ALB		1	
	Amber	1NO + 1NC	51PC6G9A		51PC6G9ALB		1	
	Less lens	1NO + 1NC	51PC6GNA		51PC6GNALB		1	
	Operators with Incandescent Lamp 120V with 6V 755 type lamp							
	240V with 6V 755 type lamp							
	Red	1NO + 1NC	51PC6H2A		51PC6H2ALB		1	
	Green	1NO + 1NC	51PC6H3A		51PC6H3ALB		1	
	Amber	1NO + 1NC	51PC6H9A		51PC6H9ALB		1	
	Less lens	1NO + 1NC	51PC6HNA		51PC6HNALB		1	
	480V with 6V 755 type lamp							
	Red	1NO + 1NC	51PC6J2A		51PC6J2ALB		1	
	Green	1NO + 1NC	51PC6J3A		51PC6J3ALB		1	
	Amber	1NO + 1NC	51PC6J9A		51PC6J9ALB		1	
	Less lens	1NO + 1NC	51PC6JNA		51PC6JNALB		1	
	600V with 6V 755 type lamp							
	Red	1NO + 1NC	51PC6K2A		51PC6K2ALB		1	
	Green	1NO + 1NC	51PC6K3A		51PC6K3ALB		1	
	Amber	1NO + 1NC	51PC6K9A		51PC6K9ALB		1	
	Less lens	1NO + 1NC	51PC6KNA		51PC6KNALB		1	
	Operators with LED Lamp ²⁾ 120V with 6V BA9 type LED							
	Red	1NO + 1NC	51PE6G2A		51PE6G2ALB		1	
	Green	1NO + 1NC	51PE6G3A		51PE6G3ALB		1	
Amber	1NO + 1NC	51PE6G9A		51PE6G9ALB		1		
240V with 6V BA9 type LED								
Red	1NO + 1NC	51PE6H2A		51PE6H2ALB		1		
Green	1NO + 1NC	51PE6H3A		51PE6H3ALB		1		
Amber	1NO + 1NC	51PE6H9A		51PE6H9ALB		1		
480V with 6V BA9 type LED								
Red	1NO + 1NC	51PE6J2A		51PE6J2ALB		1		
Green	1NO + 1NC	51PE6J3A		51PE6J3ALB		1		
Amber	1NO + 1NC	51PE6J9A		51PE6J9ALB		1		
600V with 6V BA9 type LED								
Red	1NO + 1NC	51PE6K2A		51PE6K2ALB		1		
Green	1NO + 1NC	51PE6K3A		51PE6K3ALB		1		
Amber	1NO + 1NC	51PE6K9A		51PE6K9ALB		1		

Overload reset operators with reset legend plate

Version	Color	Legend Inscription	Order No.	List Price \$ 1 unit
 Single unit 7/8" diameter reset pad, 10" shaft can be cut to length.	Red	Reset	51AAS	
 Multi unit For use with multi push operation requirements.	Red	Reset	51AAM	

1) For other colors not listed, order operator less lens and separate lens from page 10/127.

2) LED color must match lens color.



3) All illuminated devices come with std. Touch-safe shield per UL stds.

Pushbutton Units and Indicator Lights

Class 51, Hazardous Location NEMA Type 7 & 9 Devices

Selector switch operators

Selection and ordering data

Version	Lever type	Color of insert	Cam Code ^{1) 2)}	Short bushing Order No.	List Price \$ 1 unit	Long bushing Order No.	List Price \$ 1 unit	Pack Unit
	Short lever, non-Illuminated	White	A	51SA2AA		51SA2AALB		1
	Long lever, non-Illuminated	White	A	51SB2AA		51SB2AALB		
Spring return from right operation	Short lever, non-Illuminated	White	A	51SA2AC		51SA2ACLB		1
	Long lever, non-Illuminated	White	A	51SB2AC		51SB2ACLB		
	Short lever, non-Illuminated	White	B	51SA2BA		51SA2BALB		1
	Long lever, non-Illuminated	White	B	51SB2BA		51SB2BALB		
	Short lever, non-Illuminated	White	C	51SA2CA		51SA2CALB		
	Long lever, non-Illuminated	White	C	51SB2CA		51SB2CALB		
	Short lever, non-Illuminated	White	D	51SA2DA		51SA2DALB		
	Long lever, non-Illuminated	White	D	51SB2DA		51SB2DALB		
	Short lever, non-Illuminated	White	E	51SA2EA		51SA2EALB		
	Long lever, non-Illuminated	White	E	51SB2EA		51SB2EALB		
	Short lever, non-Illuminated	White	G	51SA2GA		51SA2GALB		
	Long lever, non-Illuminated	White	G	51SB2GA		51SB2GALB		
Spring return from right operation	Short lever, non-Illuminated	White	B	51SA2BC		51SA2BCLB		1
	Long lever, non-Illuminated	White	B	51SB2BC		51SB2BCLB		
	Short lever, non-Illuminated	White	C	51SA2CC		51SA2CCLB		
	Long lever, non-Illuminated	White	C	51SB2CC		51SB2CCLB		
	Short lever, non-Illuminated	White	D	51SA2DC		51SA2DCLB		
	Long lever, non-Illuminated	White	D	51SB2DC		51SB2DCLB		
	Short lever, non-Illuminated	White	E	51SA2EC		51SA2ECLB		
	Long lever, non-Illuminated	White	E	51SB2EC		51SB2ECLB		
	Short lever, non-Illuminated	White	G	51SA2GC		51SA2GCLB		
	Long lever, non-Illuminated	White	G	51SB2GC		51SB2GCLB		
Spring return from left operation	Short lever, non-Illuminated	White	B	51SA2BB		51SA2BBLB		1
	Long lever, non-Illuminated	White	B	51SB2BB		51SB2BBLB		
	Short lever, non-Illuminated	White	C	51SA2CB		51SA2CBLB		
	Long lever, non-Illuminated	White	C	51SB2CB		51SB2CBLB		
	Short lever, non-Illuminated	White	D	51SA2DB		51SA2DBLB		
	Long lever, non-Illuminated	White	D	51SB2DB		51SB2DBLB		
	Short lever, non-Illuminated	White	E	51SA2EB		51SA2EBLB		
	Long lever, non-Illuminated	White	E	51SB2EB		51SB2EBLB		
	Short lever, non-Illuminated	White	G	51SA2GB		51SA2GBLB		
	Long lever, non-Illuminated	White	G	51SB2GB		51SB2GBLB		
Spring return from left and right operation	Short lever, non-Illuminated	White	B	51SA2BD		51SA2BDLB		1
	Long lever, non-Illuminated	White	B	51SB2BD		51SB2BDLB		
	Short lever, non-Illuminated	White	C	51SA2CD		51SA2CDLB		
	Long lever, non-Illuminated	White	C	51SB2CD		51SB2CDLB		
	Short lever, non-Illuminated	White	D	51SA2DD		51SA2DDLb		
	Long lever, non-Illuminated	White	D	51SB2DD		51SB2DDLb		
	Short lever, non-Illuminated	White	E	51SA2ED		51SA2EDLB		
	Long lever, non-Illuminated	White	E	51SB2ED		51SB2EDLB		
	Short lever, non-Illuminated	White	G	51SA2GD		51SA2GDLb		
	Long lever, non-Illuminated	White	G	51SB2GD		51SB2GDLb		

1) C cam limited to 4 single or double pole blocks on spring return operators.


2) For contact operation, see cam selection chart on page 10/125.

Pushbutton Units and Indicator Lights

Class 51, Hazardous Location NEMA Type 7 & 9 Devices

Selector switch operators

Selection and ordering data



Version	Key removal position	Lock number	Cam Code ^{1) 2)}	Short bushing Order No.	List Price \$ 1 unit	Long bushing Order No.	List Price \$ 1 unit	Pack Unit
Key-operated selector switches with 2 switching positions	Both	550CH	A	51SA6AE		51SA6AELB		1
	Left	550CH	A	51SA6AF		51SA6AFLB		
Maintained operation								
Spring return from right operation	Left	550CH	A	51SA6AC		51SA6ACLB		1
Key-operated selector switches with 3 switching positions	All	550CH	B	51SA6BE		51SA6BELB		1
			C	51SA6CE		51SA6CELB		
Maintained operation								
Left	550CH		D	51SA6DE		51SA6DELB		1
			E	51SA6EE		51SA6EELB		
			G	51SA6GE		51SA6GELB		
			B	51SA6BF		51SA6BFLB		
Right	550CH		C	51SA6CF		51SA6CFLB		1
			D	51SA6DF		51SA6DFLB		
			E	51SA6EF		51SA6EFLB		
			G	51SA6GF		51SA6GFLB		
Center	550CH		B	51SA6BG		51SA6BGLB		1
			C	51SA6CG		51SA6CGLB		
			D	51SA6DG		51SA6DGLB		
			E	51SA6EG		51SA6EGLB		
Left and Center	550CH		G	51SA6GG		51SA6GGLB		1
			B	51SA6BH		51SA6BHLB		
			C	51SA6CH		51SA6CHLB		
			D	51SA6DH		51SA6DHLB		
Spring return from right operation	Center	550CH	E	51SA6EH		51SA6EHLB		1
			G	51SA6GH		51SA6GHLB		
			B	51SA6BK		51SA6BKLB		
			C	51SA6CK		51SA6CKLB		
Spring return from left operation	Center	550CH	D	51SA6DK		51SA6DKLB		1
			E	51SA6EK		51SA6EKLb		
			G	51SA6GK		51SA6GKLB		
			B	51SA6BU		51SA6BULB		
Spring return from left and right operation	Center	550CH	C	51SA6CU		51SA6CULB		1
			D	51SA6DU		51SA6DULB		
			E	51SA6EU		51SA6EULB		
			G	51SA6GU		51SA6GULB		
Spring return from left operation	Center	550CH	B	51SA6BT		51SA6BTLB		1
			C	51SA6CT		51SA6CTLB		
			D	51SA6DT		51SA6DTLB		
			E	51SA6ET		51SA6ETLB		
Spring return from left and right operation	Center	550CH	G	51SA6GT		51SA6GTLB		1
			B	51SA6BV		51SA6BVLB		
			C	51SA6CV		51SA6CVLB		
			D	51SA6DV		51SA6DVLB		
Spring return from left and right operation	Center	550CH	E	51SA6EV		51SA6EVLB		1
			G	51SA6GV		51SA6GVLB		

Lock types keyed different from standard - up to 25 per order

5

5

To order special locks for keyed selector switches, append corresponding 'X' suffix to part number

Ordering example:
51SA6AEX298

#549CH	X639	1
#548CH	X640	1
#547CH	X641	1
#501CH	X642	1
#506CH	X643	1

1) C cam limited to 4 single or double pole blocks on spring return operators.

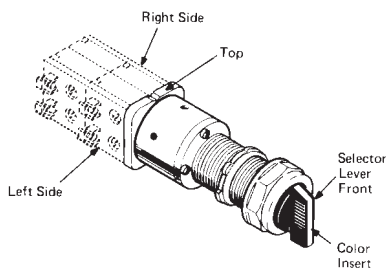
2) For contact operation, see cam selection chart on page 10/125.

Pushbutton Units and Indicator Lights

Class 51, Hazardous Location NEMA Type 7 & 9 Devices

Cam selection

Selection and ordering data

Design	Ordering Information
	<ul style="list-style-type: none"> Contact blocks are ordered separately, see page 10/128. Determine which table to use based upon the type of selector (non-illuminated & keyed on top, illuminated on bottom). Find the correct number of selector positions (2, 3 or 4 positions). Select the contact operation required for each selector position. X indicates the contacts are closed, while O indicates the contacts are open. (For the selector pushbutton, N=normal and D=depressed). Contact block must be assembled in position shown for each circuit application. Identify the Cam letter required for the chosen contact operation (only 1 CAM can be used per selector switch or selector pushbutton). Contact blocks must be assembled in the position shown for each circuit application. The mounting position is viewed from the front of the device. <p>Ordering Cams D, E or G</p> <ul style="list-style-type: none"> Cam D, E or G may be ordered at the same price by changing the 6th character of the selector catalog number. Example: Selector with D cam 51SA2DA. <p>Size Requirements</p> <ul style="list-style-type: none"> C Cam on spring return selectors is limited to 4 contact blocks. Standard push buttons accept 4 contact blocks on each side, for a maximum of 8 contact blocks. Selector operators in enclosures are limited to depth of 1 contact block. (2 blocks wide).

Non-illuminated and keyed selector switches (viewed from front)

2 Selector Positions			Contact Blocks	CAM	Mounting	
Left		Right			Left	Right
X		O	52BAJ (NC)	A	L	or R
O		X	52BAK (NO)	A	L	or R
3 Selector Positions			Contact Blocks	CAM	Mounting	
Left	Center	Right			Left	Right
X	O	O	52BAK (NO)	B		R
O	O	X	52BAK (NO)	B	L	
X	X	O	52BAJ (NC)	B	L	
O	X	X	52BAJ (NC)	B	R	
X	O	X	2- 52BAK (2 NO)	C	L	and R
X	O	O	52BAJ (NC)	C	L	R
O	O	X	52BAK (NO)	D	L	or R
O	X	O	52BAJ (NC)	D	L	or R
X	O	O	52BAK (NO)	E	L	or R
O	X	O	52BAJ (NC)	E	L	or R
X	O	O	52BAJ (NC)	G	L	
O	X	O	52BAJ (NC)	G	L	
O	O	X	52BAK (NO)	G	L	or R

Illuminated selector switches

2 Selector Positions			Contact Blocks	CAM	Mounting	
Left		Right			Left	Right
X		O	52BAJ (NC)	A	L	
O		X	52BAK (NO)	A	L	






1) Wired in parallel.

Pushbutton Units and Indicator Lights

Class 51, Hazardous Location NEMA Type 7 & 9 Devices

Control stations

Selection and ordering data

	Operator Identification ¹⁾	Degree of operator	Contacts/voltage	Number of command points	Order No.	List Price \$	Pack
						1 unit	Unit
	A = Momentary flush pushbutton black, label "START"	NEMA 7/9	1NO - 1NC	1	51C101H		1
	A = Momentary raised pushbutton red, label "STOP"	NEMA 7/9	1NO - 1NC	1	51C103H		1
	A = Momentary 1 5/8" mushroom head red label "STOP"	NEMA 7/9	1NO - 1NC	1	51C104H		1
	A = Momentary dual pushbutton red label "START, STOP"	NEMA 7/9	1NO - 1NC	1	51C105H		1
	A = 2 position selector switch label "Off-On"	NEMA 7/9	1NO - 1NC	1	51C159H		1
	A = 3 position selector switch label "HAND-OFF-AUTO"	NEMA 7/9	1NO - 1NC	1	51C156H		1
	A = Indicator light, green, 120 V	NEMA 7/9		1	51C131H		1
A = Indicator light, red, 120 V	NEMA 7/9		1	51C135H		1	
	B = Momentary pushbutton black, label "START" A = Momentary raised pushbutton red, label "STOP"	NEMA 7/9	1NO - 1NC 1NO - 1NC	2	51C201H		1
	B = Momentary pushbutton black, label " FORWARD" A = Momentary pushbutton red, label "REV"	NEMA 7/9	1NO - 1NC 1NO - 1NC	2	51C204H		1
	B = Momentary pushbutton black, label "START" A = Momentary 1 5/8" mushroom head pushbutton red, label "STOP"	NEMA 7/9	1NO - 1NC 1NO - 1NC	2	51C202H		1
	B = Indicator light, red, 120 V A = Indicator light, green, 120 V	NEMA 7/9	1NO - 1NC 1NO - 1NC	2	51C230H		1
	C = Momentary flush pushbutton black, label "FORWARD" B = Momentary flush pushbutton black, label "REVERSE" A = Momentary raised pushbutton red, label "STOP"	NEMA 7/9	1NO - 1NC 1NO - 1NC 1NO - 1NC	3	51C301H		1
	C = Momentary flush pushbutton black, label "OPEN" B = Momentary flush pushbutton black, label "CLOSE" A = Momentary raised pushbutton red, label "STOP"	NEMA 7/9	1NO - 1NC 1NO - 1NC 1NO - 1NC	3	51C303H		1
	C = Indicator light, green, 120 V B = Momentary flush pushbutton black, label "START" A = Momentary raised pushbutton red, label "STOP"	NEMA 7/9	1NO - 1NC 1NO - 1NC	3	51C307H		1
	For field assembly of Type 7 & 9 UL listed and cUL listed control stations. Devices may be installed for either horizontal or vertical mounting using a standard legend. Limited to depth of 1 contact block.			1	51EA1H		1
				2	51EA2H		1
				3	51EA3H		1

Enclosures only²⁾

1) All enclosures come standard with one conduit entry on top. To get two conduit entries, append X-311 to the end of the order number.










2) For legend plates see page 10/168.

Pushbutton Units and Indicator Lights

Class 51, Hazardous Location NEMA Type 7 & 9 Devices

Accessories and spare parts

Selection and ordering data




Version	Suitable for	Conduit size (in.)	Color	Order No.	List Price \$ 1 unit	Pack Unit					
	For small 1 5/8" (41.3mm) type, non-illuminated mushroom push-buttons		Black	52RB3D1		1					
			Red	52RB3D2							
			Green	52RB3D3							
			Yellow	52RB3D4							
			Blue	52RB3D5							
			Gray	52RB3D6							
			Orange	52RB3D8							
			1 kit of each	52RB3DN							
				For large 2 1/2" (63.5mm) type, non-illuminated mushroom push-buttons				Black	52RB3E1		1
Red	52RB3E2										
Green	52RB3E3										
Yellow	52RB3E4										
Blue	52RB3E5										
Gray	52RB3E6										
Orange	52RB3E8										
1 kit of each	52RB3EN										
	Replacement lens for pilot lights Glass lens				Red	51RC4G2			1		
			Green	51RC4G3							
			Blue	51RC4G5							
			Amber	51RC4G9							
			Clear	51RC4GA							
	Replacement lens for push to test/illuminated pushbuttons Glass lens		Red	51RC5G2		1					
			Green	51RC5G3							
			Amber	51RC5G9							
	Lever inserts Short lever		Red	52RA2A2		1					
			Green	52RA2A3							
			Blue	52RA2A4							
			Amber	52RA2A5							
			Gray	52RA2A6							
			Orange	52RA2A8							
			White	52RA2AB							
			Long lever					Red	52RA2B2		1
								Green	52RA2B3		
Blue	52RA2B4										
Amber	52RA2B5										
Gray	52RA2B6										
Orange	52RA2B8										
White	52RA2BB										
	Padlock attachment	Only for raised pushbutton operators		51AAL		1					
	Breather/drain (Stainless Steel)	Installs in bottom as a drain or in the top as a breather. Suitable for Class 1 groups C & D and for Class 2 groups F & G applications only. Fits 1/2" NPT.		51AADB		1					
	Lock nut wrench	All devices		52MAWB		1					
	Spare keys	550CH (1 key)		50D28671011		1					
	Hole plugs	For tapered NPT conduit openings	1/2	51AAHA		1					
			3/4	51AAHB							
			1	51AAHC							
			1 1/2	51AAHD							
			2	51AAHE							
2 1/2	51AAHF										

Pushbutton Units and Indicator Lights

Class 51, Hazardous Location NEMA Type 7 & 9 Devices


Accessories and spare parts

Selection and ordering data

Version	Suitable for	Conduit size (in.)	Color	Order No.	List Price \$ 1 unit	Pack Unit	
	Cast aluminum, UL recognized and CSA certified. Used to reduce existing tapered NPT conduit opening when required.	3/4 - 1/2		51AARBA		1	
		1 - 1/2		51AARCA			
		1 1/2 - 3/4		51AARDB			
		1 1/2 - 1		51AARDC			
		2 1/2 - 3/4		51AARFB			
		2 1/2 - 1		51AARFC			
		2 1/2 - 1 1/2		51AARFD			
		2 1/2 - 2		51AARFE			
		3 - 1		51AARGC			
		3 - 1 1/2		51AARGD			
		3 - 2		51AARGE			
3 - 2 1/2		51AARGF					
Lamps with screw connection, miniature bayonet incandescent lamps							
	Flashing, type 267 lamp (replaces 755 lamp)	51, 52	6V	52AABNF		1	
	6V Full voltage, transformer type 755 lamp	51, 52	6V	52AABN		1	
	12V full voltage, type 756	51, 52	12V	52AACN		1	
	24V full voltage, 120/240V resistor push-to-test type 757	51, 52	24V	52AADN		1	
	Neon (uses resistors) type B2A (NE-51H)	51, 52	120V	52AAPN		1	
	120V, full voltage type 3S6/5	51, 52	120V	52AAENC		1	
	LEDs, Single element	51, 52	6V	Red	52AEB2		1
		51, 52	6V	Green	52AEB3		
		51, 52	6V	Yellow	52AEB4		
		51, 52	6V	White	52AEBB		
		51, 52	6V	Blue	52AEB5		
51, 52		24V	Red	52AED2			
51, 52		24V	Green	52AED3			
51, 52		24V	Yellow	52AED4			
51, 52		24V	White	52AEDB			
51, 52		24V	Blue	52AED5			
51, 52		120V	Red	52AEE2			
51, 52		120V	Green	52AEE3			
51, 52		120V	Yellow	52AEE4			
51, 52		120V	White	52AEEB			
51, 52		120V	Blue	52AEE5			
Touchsafe contact blocks with gold flashing							
 <p>52BAJ 52BAK 52BAR</p>	1 NO			52BAK		1	
	1 NC			52BAJ			
	1 NO - 1 NC			52BJK			
	1 NO early make	closes before 52BAK opens after 52BAJ			52BAH		
	1 NC late break				52BAE		
	1 NO - 1 NC				52BAR ¹⁾		
		Reed switch					
	UL listed for class 1 division 2 .25A Max, 150V AC, 10 Watt max .5A Max, 150V DC, 10 Watt max						
1 NC extra late break				52BAU			

1) Hermetically sealed.

Features

- Octagonal Mounting Nuts
- Meets Type 1, 3, 3R, 4, 4X, 12, 13 and Automotive Standards
- Heavy Duty Rated NEMA A600/P600 Contacts
-  Positively Driven Contacts
- Positive Indexing Selectors
- Bifurcated Movable Contacts
- Attractive Chrome Plating
- Boots Not Required for Type 4
- UL Listed File # E22655
- CSA Certified File # LR6535
- Touchsafe Terminals

Application

Oil tight pilot controls and accessories are designed to provide long, trouble free service in the most demanding industrial applications. These controls are oil and dust tight and meet Type 3, 4, 4X, 12 and 13 specifications.

Rugged

Industrial control operators are durable one piece castings. Heavy duty plastic buttons resist oils and corrosion. Silver contacts carry heavy duty ratings.

Flexible

Accessories modify standard push buttons, selector switches and pilot lights. Building block construction of contact blocks makes possible many circuitry combinations.

Industrial Appearance

Pilot controls add luster to panels. Chrome plating covers exposed metal parts.

Push Button Operators


The Operator Base consists of a durable, one piece casting equipped with a heavy duty actuator with a stainless steel spring, a neoprene actuator sealing ring to prevent oil and dust from penetrating to the contact blocks, a neoprene gasket to seal operator mounting hole and a chrome plated lock nut.

Mushroom Head Push Button Operators

The Mushroom Head base construction is identical to the push button base. The actuator is molded of high impact material for either a 1 5/8 inch or 2 1/2 inch diameter molded head.

E-STOP Mushroom Head Operators according to EN 60947-5-5 Cat. No. 52BP, 52BR, 52PP, and 52PR, 2 Position, Twist-To-Release & 2 Position, Push Pull Maintained operators provided with red operating heads and 52BJK contact blocks meet the requirements of EN 60947-5-5 for Electrical Emergency Stop Device With Mechanical Latching Function (e-stop).

Contact Blocks

Contact Blocks have double break bifurcated silver contacts, with gold flashing as standard, which improves contact reliability. Contact blocks are heavy duty rated NEMA A600 and suitable for applications down to 5V/1mA solid state outputs. 52BJK offers  Positive Opening Contacts according to IEC 60947-5-1, Appendix K. Molded bodies and pushers resist arcing and tracking. All units have stainless steel springs that resist corrosion and provide strong contact pressure. Captive mounting screws speed panel assembly.

Push Pull Operators

Push Pull Operators combine two or three functions in one unit. The maintained operator has two positions, typically pull to start, push to stop. The momentary operator with three positions provides spring return from both pull and push positions. In addition, a three position push maintained, pull momentary operator is available. The actuator come is 1 3/4 inch or 2 1/2 inch diameter and is available in an illuminated version.

2 Button Maintained Operator

Maintained Push Buttons consist of two push buttons and a latching assembly. When actuated the button remains depressed and is freed only by the release operator to which it is linked. The button assembly adjusts for mounting from a 1 13/16 inch to a 2 5/8 inch center.

Transformer Type Pilot Lights

Transformer Type Pilot Lights are available with a 120, 240, 480 or 600 Volt primary (50/60 Hertz) and a separate secondary winding which supplies reduced voltage to a miniature bayonet base 6 Volt lamp. These units are suitable for applications where vibration is present and long bulb life is desirable.

Full Voltage Type Pilot Lights

Full Voltage Pilot Lights are available for 6, 12, 24 and 120 Volt AC and DC applications.

Electrical Ratings

NEMA AC Ratings 50/60Hz
NEMA A600 10 Continuous Amps

Volts	Make	Break
120	60	6
240	30	3
480	15	1.5
600	12	1.2
VA	7200	720

Ordering Information

- Accessories: pages 10/158 – 10/161.
- Selector Position and Contact Operation: page 10/156.
- Legend Plates: page 10/168.
- Enclosures: page 10/167.
- Technical Specifications: page 10/169A.

Resistor Type Pilot Lights

Resistor Type Pilot Lights are available for 240 Volt AC and DC applications. The 240 Volt pilot light is supplied with a 120 Volt lamp and a voltage dropping resistor.

LED Type Pilot Lights

LED's (light emitting diodes) can be used in pilot lights instead of incandescent bulbs because of their long life (up to 10 years), resistance to vibration and ambient sensitivity. Clustered LED options are available for standard pilot lights only. Cluster LED options are not available on Push to test Pilot Lights, Illuminated Pushbuttons, Push-pull, or Twist-to-Release Operators.

Integrated LED Module Type Pilot Lights

The integrated LED module is available for 24, 120, and 240 V. LED modules are vibration resistant and have a long life (up to 10 years). The integrated LED module is available for 24, 120, and 240 V. LED modules are vibration resistant and have a long life (up to 10 yrs.).

Selector Operators

Selector Operators have positive action indexing. Operators are available with either a short or long lever. The molded black lever is designed to accept a color insert. A white insert is provided as standard. Each operator is equipped with a cam to actuate plungers of contact blocks assembled behind the operator. Two, three and four position operators are available with seven different cams.

Lever color inserts are available in 8 colors.



Pilot Light



Push Button



Selector Operator



Selector Push Operation




Pushbutton Units and Indicator Lights

30 mm Heavy Duty, Watertight/Oiltight, Class 52

• Revised •
03/20/2012

Pushbutton complete units

Selection and ordering data

Version	Color of actuator	Contact blocks	Flush cap order no.	Extended cap order no.	List Price	Mushroom head order no.	List Price	Pack
					\$		\$	Unit
Pushbutton unit with assembled contact blocks^①	black	1 NO	52PA8A1K	52PA8B1K		52PB9□1K		1
	red	1 NO	52PA8A2K	52PA8B2K		52PB9□2K		
	green	1 NO	52PA8A3K	52PA8B3K		52PB9□3K		
	yellow	1 NO	52PA8A4K	52PA8B4K		52PB9□4K		
Pushbutton with flush cap 	blue	1 NO	52PA8A5K	52PA8B5K		52PB9□5K		
	gray	1 NO	52PA8A6K	52PA8B6K		52PB9□6K		
	orange	1 NO	52PA8A8K	52PA8B8K		52PB9□8K		
	black	1 NC	52PA8A1J	52PA8B1J		52PB9□1J		1
Pushbutton with extended cap 	red	1 NC	52PA8A2J	52PA8B2J		52PB9□2J		
	green	1 NC	52PA8A3J	52PA8B3J		52PB9□3J		
	yellow	1 NC	52PA8A4J	52PA8B4J		52PB9□4J		
	blue	1 NC	52PA8A5J	52PA8B5J		52PB9□5J		
Pushbutton with 2 1/2" mushroom head 	gray	1 NC	52PA8A6J	52PA8B6J		52PB9□6J		
	orange	1 NC	52PA8A8J	52PA8B8J		52PB9□8J		
	black	1 NO + 1 NC	52PA8A1A	52PA8B1A		52PB9□1A		1
	red	1 NO + 1 NC	52PA8A2A	52PA8B2A		52PB9□2A		
Pushbutton with 2 1/2" mushroom head	green	1 NO + 1 NC	52PA8A3A	52PA8B3A		52PB9□3A		
	yellow	1 NO + 1 NC	52PA8A4A	52PA8B4A		52PB9□4A		
	blue	1 NO + 1 NC	52PA8A5A	52PA8B5A		52PB9□5A		
	gray	1 NO + 1 NC	52PA8A6A	52PA8B6A		52PB9□6A		
Pushbutton with 2 1/2" mushroom head	orange	1 NO + 1 NC	52PA8A8A	52PA8B8A		52PB9□8A		
	black	2 NO	52PA8A1F	52PA8B1F		52PB9□1F		1
	red	2 NO	52PA8A2F	52PA8B2F		52PB9□2F		
	green	2 NO	52PA8A3F	52PA8B3F		52PB9□3F		
Pushbutton with 2 1/2" mushroom head	yellow	2 NO	52PA8A4F	52PA8B4F		52PB9□4F		
	blue	2 NO	52PA8A5F	52PA8B5F		52PB9□5F		
	gray	2 NO	52PA8A6F	52PA8B6F		52PB9□6F		
	orange	2 NO	52PA8A8F	52PA8B8F		52PB9□8F		
Pushbutton with 2 1/2" mushroom head	black	2 NC	52PA8A1G	52PA8B1G		52PB9□1G		1
	red	2 NC	52PA8A2G	52PA8B2G		52PB9□2G		
	green	2 NC	52PA8A3G	52PA8B3G		52PB9□3G		
	yellow	2 NC	52PA8A4G	52PA8B4G		52PB9□4G		
Pushbutton with 2 1/2" mushroom head	blue	2 NC	52PA8A5G	52PA8B5G		52PB9□5G		
	gray	2 NC	52PA8A6G	52PA8B6G		52PB9□6G		
	orange	2 NC	52PA8A8G	52PA8B8G		52PB9□8G		
	black	2 NO + 2 NC	52PA8A1B	52PA8B1B		52PB9□1B		1
Pushbutton with 2 1/2" mushroom head	red	2 NO + 2 NC	52PA8A2B	52PA8B2B		52PB9□2B		
	green	2 NO + 2 NC	52PA8A3B	52PA8B3B		52PB9□3B		
	yellow	2 NO + 2 NC	52PA8A4B	52PA8B4B		52PB9□4B		
	blue	2 NO + 2 NC	52PA8A5B	52PA8B5B		52PB9□5B		
Pushbutton with 2 1/2" mushroom head	gray	2 NO + 2 NC	52PA8A6B	52PA8B6B		52PB9□6B		
	orange	2 NO + 2 NC	52PA8A8B	52PA8B8B		52PB9□8B		

Order no. change
Small operating head - 1 5/8" (41.3 mm)
Large operating head - 2.5" (63.5 mm)

D
E

Technical Specifications
on page 10/169A

① For other contact block assemblies replace the 8th digit catalog number as follows:

C = 3 NO + 3NC
D = 4 NO + 4NC
E = 1 NC (EB)
H = 1 NO (EM)







• Revised •
03/20/2012

Pushbutton Units and Indicator Lights

30 mm Heavy Duty, Watertight/Oiltight, Class 52

Push pull complete units

Selection and ordering data

	Version	Color of actuator	Contact blocks	Order no.	List Price	Order no.	List Price	Pack Unit
				Plastic Head	\$	Metal Head	\$	
2 Position push-pull non-illuminated   	2 Position Push Pull, Maintained^① Non-Illuminated 1 3/4" (44.5 mm) mushroom head	less operating head	1NO - 1NC	52PP2WZA		52PP2AZA		1
		red	1NO - 1NC	52PP2W2A		52PP2A2A		
		green	1NO - 1NC	52PP2W3A		52PP2A3A		
		yellow	1NO - 1NC	52PP2W4A		—		
		chrome	1NO - 1NC	—		52PP2ACA		
	2 1/2" (63.5 mm) mushroom head	less operating head	1NO - 1NC	52PP2VZA				1
		red	1NO - 1NC	52PP2V2A				
		green	1NO - 1NC	52PP2V3A				
		yellow	1NO - 1NC	52PP2V4A				
		chrome	1NO - 1NC	—				
3 Position push-pull non-illuminated   	3 Position Push Pull, Momentary Non-Illuminated (Pull to start, push to stop) ^① 1 3/4" (44.5 mm) mushroom head	less operating head	1NO - 1NC	52PP3WZU		52PP3AZU		1
		red	1NO - 1NC	52PP3W2U		52PP3A2U		
		green	1NO - 1NC	52PP3W3U		52PP3A3U		
		yellow	1NO - 1NC	52PP3W4U		—		
		chrome	1NO - 1NC	—		52PP3ACU		
	2 1/2" (63.5 mm) mushroom head	less operating head	1NO - 1NC	52PP3VZU				1
		red	1NO - 1NC	52PP3V2U				
		green	1NO - 1NC	52PP3V3U				
		yellow	1NO - 1NC	52PP3V4U				
		chrome	1NO - 1NC	—				
	3 Position Push Pull, Push Maintained, Pull Momentary Non-Illuminated (Pull to start, push to stop) ^① 1 3/4" (44.5 mm) mushroom head	less operating head	1NO - 1NC	52PP7WZU		52PP7AZU		1
		red	1NO - 1NC	52PP7W2U		52PP7A2U		
		green	1NO - 1NC	52PP7W3U		52PP7A3U		
		yellow	1NO - 1NC	52PP7W4U		—		
		chrome	1NO - 1NC	—		52PP7ACU		
2 1/2" (63.5 mm) mushroom head	less operating head	1NO - 1NC	52PP7VZU				1	
	red	1NO - 1NC	52PP7V2U					
	green	1NO - 1NC	52PP7V3U					
	yellow chrome	1NO - 1NC	52PP7V4U					

Color options^②: black
blue
grey
orange

1
5
6
8

Technical Specifications on page 10/169A

① Blocks cannot be interchanged (start-stop circuit).
② To order a color option, replace the 7th digit of the order number.

③ EMERGENCY-STOP control devices according to IEC 60947-5-5 when provided with red operating head and 52BJK contact blocks.



Pushbutton Units and Indicator Lights

30 mm Heavy Duty, Watertight/Oiltight, Class 52

• Revised •
03/20/2012

Push pull complete units

Selection and ordering data

	Version	Color of actuator	Contact blocks	Order no.	List Price	Order no.	List Price	Pack
				Plastic Head	\$	Metal Head	\$	Unit
<p>2 Position push-pull illuminated</p>  	2 Position Push Pull, Maintained^④ Illuminated, Integrated LED Module 24 V AC/DC 1 3/4" (44.5 mm) mushroom head	red	1NO - 1NC	52PP2LRA		52PP2L2A		1
		green	1NO - 1NC	52PP2LSA		52PP2L3A		
		amber	1NO - 1NC	52PP2LTA		52PP2L9A		
	120 V AC 1 3/4" (44.5 mm) mushroom head	red	1NO - 1NC	52PP2MRA		52PP2M2A		1
		green	1NO - 1NC	52PP2MSA		52PP2M3A		
		amber	1NO - 1NC	52PP2MTA		52PP2M9A		
	240 V AC 1 3/4" (44.5 mm) mushroom head	red	1NO - 1NC	52PP2NRA		52PP2N2A		1
		green	1NO - 1NC	52PP2NSA		52PP2N3A		
		amber	1NO - 1NC	52PP2NTA		52PP2N9A		
	2 Position Push Pull, Maintained^④ Illuminated, Full Voltage^③ 24 V AC/DC 1 3/4" (44.5 mm) mushroom head with 52AADN, 24 V 757 type lamp or option: B = 52AED*, 24 V Single LED ^③	less operating head	1NO - 1NC	52PP2DZA		—		1
		red	1NO - 1NC	52PP2DRA		52PP2D2A		
		green	1NO - 1NC	52PP2DSA		52PP2D3A		
	2 Position Push Pull, Maintained^④ Illuminated, Transformer^① 120 V AC 1 3/4" (44.5 mm) mushroom head with 52AABN, 6 V 755 type lamp or option: B = 52AEB*, 6 V Single LED ^③	less operating head	1NO - 1NC	52PP2GZA		—		1
		red	1NO - 1NC	52PP2GRA		52PP2G2A		
		green	1NO - 1NC	52PP2GSA		52PP2G3A		
	240 V AC 1 3/4" (44.5 mm) mushroom head with 52AABN, 6 V 755 type lamp or option: B = 52AEB*, 6 V Single LED ^③	less operating head	1NO - 1NC	52PP2HZA		—		1
		red	1NO - 1NC	52PP2HRA		52PP2H2A		
		green	1NO - 1NC	52PP2HSA		52PP2H3A		
480 V AC 1 3/4" (44.5 mm) mushroom head with 52AABN, 6 V 755 type lamp or option: B = 52AEB*, 6 V Single LED ^③	less operating head	1NO - 1NC	52PP2JZA		—		1	
	red	1NO - 1NC	52PP2JRA		52PP2J2A			
	green	1NO - 1NC	52PP2JSA		52PP2J3A			
600V AC 1 3/4" (44.5 mm) mushroom head with 52AABN, 6 V 755 type lamp or option: B = 52AEB*, 6 V Single LED ^③	less operating head	1NO - 1NC	52PP2KZA		—		1	
	red	1NO - 1NC	52PP2KRA		52PP2K2A			
	green	1NO - 1NC	52PP2KSA		52PP2K3A			
	amber	1NO - 1NC	52PP2KTA		52PP2K9A			

Color options^②: blue
clear
white

5
A
B

Technical Specifications
on page 10/169A

- ① LED option available. For single LED only, append **B** to the end of the order number. Single LEDs available for all colors. LED color and lens color must match. LED option is not available on units sold "less operating head". Example: Single LED: 52PP2HRA**B**
- ② To order a color option, replace the 7th digit of the order number.
- ③ Replace asterisk (*) in LED part number with color option that matches lens. See replacement lamps on page 10/161, for complete catalog number.

- ④ EMERGENCY-STOP control devices according to IEC 60947-5-5 when provided with red operating head and 52BJK contact blocks.
- ⑤ Full Voltage modules are available with additional voltage ratings from the factory. For Incandescent lamps change the 6th Character to **B**=6V, **C**=12V, or **E**=120V (Example: Order 52PP2**B**2A for 6V Incandescent Lamp). For LED options change the 6th Character to **B**=6V AC, or **E**=120V AC (Example: Order 52PP2**B**2AB for 6V AC LED Lamp option).



• Revised •
03/20/2012

Pushbutton Units and Indicator Lights

30 mm Heavy Duty, Watertight/Oiltight, Class 52

Push pull complete units

Selection and ordering data

	Version	Color of actuator	Contact blocks	Order no.	List Price	Order no.	List Price	Pack	
				Plastic Head	\$	Metal Head	\$	Unit	
3 Position push-pull illuminated  	3 Position Push Pull, Momentary Illuminated, Integrated LED Module 24 V AC/DC 1 3/4" (44.5 mm) mushroom head 120 V AC 1 3/4" (44.5 mm) mushroom head 240 V AC 1 3/4" (44.5 mm) mushroom head	red	1NO - 1NC	52PP3LRU		52PP3L2U		1	
		green	1NO - 1NC	52PP3LSU		52PP3L3U		1	
		amber	1NO - 1NC	52PP3LTU		52PP3L9U		1	
		red	1NO - 1NC	52PP3MRU		52PP3M2U		1	
		green	1NO - 1NC	52PP3MSU		52PP3M3U		1	
		amber	1NO - 1NC	52PP3MTU		52PP3M9U		1	
		red	1NO - 1NC	52PP3NRU		52PP3N2U		1	
		green	1NO - 1NC	52PP3NSU		52PP3N3U		1	
		amber	1NO - 1NC	52PP3NTU		52PP3N9U		1	
	3 Position Push Pull, Momentary Illuminated, Full Voltage ^{①③} (Pull to start, push to stop) ^② 24 V AC/DC 1 3/4" (44.5 mm) mushroom head with 52AADN, 24 V 757 type lamp or option: B = 52AED*, 24 V Single LED ^④	less operating head	1NO - 1NC	52PP3DZU		52PP3DZU		1	
		red	1NO - 1NC	52PP3DRU		52PP3D2U		1	
		green	1NO - 1NC	52PP3DSU		52PP3D3U		1	
		amber	1NO - 1NC	52PP3DTU		52PP3D9U		1	
		less operating head	1NO - 1NC	52PP3GZU		52PP3GZU		1	
			red	1NO - 1NC	52PP3GRU		52PP3G2U		1
			green	1NO - 1NC	52PP3GSU		52PP3G3U		1
		amber	1NO - 1NC	52PP3GTU		52PP3G9U		1	
		less operating head	1NO - 1NC	52PP3HZU		52PP3HZU		1	
	red		1NO - 1NC	52PP3HRU		52PP3H2U		1	
	green		1NO - 1NC	52PP3HSU		52PP3H3U		1	
	amber	1NO - 1NC	52PP3HTU		52PP3H9U		1		
	less operating head	1NO - 1NC	52PP3JZU		52PP3JZU		1		
		red	1NO - 1NC	52PP3JRU		52PP3J2U		1	
		green	1NO - 1NC	52PP3JSU		52PP3J3U		1	
amber	1NO - 1NC	52PP3JTU		52PP3J9U		1			
less operating head	1NO - 1NC	52PP3KZU		52PP3KZU		1			
	red	1NO - 1NC	52PP3KRU		52PP3K2U		1		
	green	1NO - 1NC	52PP3KSU		52PP3K3U		1		
amber	1NO - 1NC	52PP3KTU		52PP3K9U		1			

Color options^③: blue
clear
white

5
A
B

Technical Specifications
on page 10/169A

- ① **LED option available.** For single LED only, append **B** to the end of the order number. Single LEDs available for all colors. LED color and lens color must match. LED option is not available on units sold "less operating head".
Example: Single LED: 52PP3G2UB
- ② Blocks cannot be interchanged (start-stop circuit).
- ③ To order a color option, replace the 7th digit of the order number.

- ④ Replace asterisk (*) in LED part number with color option that matches lens. See replacement lamps on page 10/161, for complete catalog number.
- ⑤ Full Voltage modules are available with additional voltage ratings from the factory. For Incandescent lamps change the 6th Character to **B**=6V, **C**=12V, or **E**=120V (Example: Order 52PP3B2U for 6V Incandescent Lamp). For LED options change the 6th Character to **B**=6V AC, or **E**=120V AC (Example: Order 52PP3B2UB for 6V AC LED Lamp option).



Pushbutton Units and Indicator Lights

30 mm Heavy Duty, Watertight/Oiltight, Class 52

• Revised •
03/20/2012

Push pull complete units

Selection and ordering data

	Version	Color of actuator	Contact blocks	Order no.		List Price	Pack
				Plastic Head	Metal Head		
3 Position push-pull illuminated  	3 Position Push Pull, Push Maintained, Pull Momentary Illuminated, Integrated LED Module (Pull to start, push to stop) ^②						
	24 V AC/DC 1 3/4" (44.5 mm) mushroom head	red green amber	1NO - 1NC 1NO - 1NC 1NO - 1NC	52PP7LRU 52PP7LSU 52PP7LTU	52PP7L2U 52PP7L3U 52PP7L9U		1
	120 V AC 1 3/4" (44.5 mm) mushroom head	red green amber	1NO - 1NC 1NO - 1NC 1NO - 1NC	52PP7MRU 52PP7MSU 52PP7MTU	52PP7M2U 52PP7M3U 52PP7M9U		1
	240 V AC 1 3/4" (44.5 mm) mushroom head	red green amber	1NO - 1NC 1NO - 1NC 1NO - 1NC	52PP7NRU 52PP7NSU 52PP7NTU	52PP7N2U 52PP7N3U 52PP7N9U		1
	3 Position Push Pull, Momentary Push Maintained, Pull Momentary Illuminated, Full Voltage ^{①⑤} (Pull to start, push to stop) ^②						
	24 V AC/DC 1 3/4" (44.5 mm) mushroom head with 52AADN, 24 V 757 type lamp or option: B = 52AED*, 24 V Single LED ^④	less operating head red green amber	1NO - 1NC 1NO - 1NC 1NO - 1NC 1NO - 1NC	52PP7DZU 52PP7DRU 52PP7DSU 52PP7DTU	52PP7DZU 52PP7D2U 52PP7D3U 52PP7D9U		1
	3 Position Push Pull, Momentary Push Maintained, Pull Momentary Illuminated, Transformer ^① (Pull to start, push to stop) ^②						
	120 V AC 1 3/4" (44.5 mm) mushroom head with 52AABN, 6 V 755 type lamp or option: B = 52AEB*, 6 V Single LED ^④	less operating head red green amber	1NO - 1NC 1NO - 1NC 1NO - 1NC 1NO - 1NC	52PP7GZU 52PP7GRU 52PP7GSU 52PP7GTU	52PP7GZU 52PP7G2U 52PP7G3U 52PP7G9U		1
	240 V AC 1 3/4" (44.5 mm) mushroom head with 52AABN, 6 V 755 type lamp or option: B = 52AEB*, 6 V Single LED ^④	less operating head red green amber	1NO - 1NC 1NO - 1NC 1NO - 1NC 1NO - 1NC	52PP7HZU 52PP7HRU 52PP7HSU 52PP7HTU	52PP7HZU 52PP7H2U 52PP7H3U 52PP7H9U		1
	480 V AC 1 3/4" (44.5 mm) mushroom head with 52AABN, 6 V 755 type lamp or option: B = 52AEB*, 6 V Single LED ^④	less operating head red green amber	1NO - 1NC 1NO - 1NC 1NO - 1NC 1NO - 1NC	52PP7JZU 52PP7JRU 52PP7JSU 52PP7JTU	52PP7JZU 52PP7J2U 52PP7J3U 52PP7J9U		1
	600V AC 1 3/4" (44.5 mm) mushroom head with 52AABN, 6 V 755 type lamp or option: B = 52AEB*, 6 V Single LED ^④	less operating head red green amber	1NO - 1NC 1NO - 1NC 1NO - 1NC 1NO - 1NC	52PP7KZU 52PP7KRU 52PP7KSU 52PP7KTU	52PP7KZU 52PP7K2U 52PP7K3U 52PP7K9U		1

Color options^③: blue
clear
white

5
A
B

Technical Specifications
on page 10/169A

① LED option available. For single LED only, append B to the end of the order number. Single LEDs available for all colors. LED color and lens color must match. LED option is not available on units sold "less operating head".

Example: Single LED: 52PP7JTUB



② Blocks cannot be interchanged (start-stop circuit).

③ To order a color option, replace the 7th digit of the order number.

④ Replace asterisk (*) in LED part number with color option that matches lens. See replacement lamps on page 10/161, for complete catalog number.

⑤ Full Voltage modules are available with additional voltage ratings from the factory. For Incandescent lamps change the 6th Character to B=6V, C=12V, or E=120V (Example: Order 52PP7B2U for 6V Incandescent Lamp). For LED options change the 6th Character to B=6V AC, or E=120V AC (Example: Order 52PP7B2UB for 6V AC LED Lamp option).

Selection and ordering data

Version	Color of actuator	Contact blocks	Order no. Plastic Head	List Price \$	Pack Unit	
2 Position twist-to-release non-illuminated 	2 Position Twist-To-Release, Maintained^③ Non-Illuminated					
	1 3/4" (44.5 mm) mushroom head	less operating head	1NO - 1NC	52PR8WZA	1	
		red	1NO - 1NC	52PR8W2A		
		green	1NO - 1NC	52PR8W3A		
		yellow	52PR8W4A			
2 Position twist-to-release illuminated 	2 Position Twist-To-Release, Maintained^③ Illuminated, Integrated LED Module					
	24 V AC/DC 1 3/4" (44.5 mm) mushroom head	red	1NO - 1NC	52PR8LRA	1	
		green	1NO - 1NC	52PR8LSA		
		amber	1NO - 1NC	52PR8LTA		
	120 V AC 1 3/4" (44.5 mm) mushroom head	red	1NO - 1NC	52PR8MRA	1	
		green	1NO - 1NC	52PR8MSA		
		amber	1NO - 1NC	52PR8MTA		
	240 V AC 1 3/4" (44.5 mm) mushroom head	red	1NO - 1NC	52PR8NRA	1	
		green	1NO - 1NC	52PR8NSA		
		amber	1NO - 1NC	52PR8NTA		
	2 Position Twist-To-Release, Maintained^③ Illuminated, Full Voltage^④					
	24 V AC/DC 1 3/4" (44.5 mm) mushroom head with 52AADN, 24V 757 type lamp or option: B = 52AED*, 24V Single LED ^②	less operating head	1NO - 1NC	52PR8DZA	1	
		red	1NO - 1NC	52PR8DRA		
		green	1NO - 1NC	52PR8DSA		
		amber	1NO - 1NC	52PR8DTA		
	2 Position Twist-To-Release, Maintained^③ Illuminated, Transformer^①					
	120 V AC 1 3/4" (44.5 mm) mushroom head with 52AABN, 6 V 755 type lamp or option: B = 52AEB*, 6 V Single LED ^②	less operating head	1NO - 1NC	52PR8GZA	1	
		red	1NO - 1NC	52PR8GRA		
	green	1NO - 1NC	52PR8GSA			
	amber	1NO - 1NC	52PR8GTA			
240 V AC 1 3/4" (44.5 mm) mushroom head with 52AABN, 6 V 755 type lamp or option: B = 52AEB*, 6 V Single LED ^②	less operating head	1NO - 1NC	52PR8HZA	1		
	red	1NO - 1NC	52PR8HRA			
	green	1NO - 1NC	52PR8HSA			
	amber	1NO - 1NC	52PR8HTA			
480 V AC 1 3/4" (44.5 mm) mushroom head with 52AABN, 6 V 755 type lamp or option: B = 52AEB*, 6 V Single LED ^②	less operating head	1NO - 1NC	52PR8JZA	1		
	red	1NO - 1NC	52PR8JRA			
	green	1NO - 1NC	52PR8JSA			
	amber	1NO - 1NC	52PR8JTA			
600V AC 1 3/4" (44.5 mm) mushroom head with 52AABN, 6 V 755 type lamp or option: B = 52AEB*, 6 V Single LED ^②	less operating head	1NO - 1NC	52PR8KZA	1		
	red	1NO - 1NC	52PR8KRA			
	green	1NO - 1NC	52PR8KSA			
	amber	1NO - 1NC	52PR8KTA			

Technical Specifications
on page 10/169A

- ① **LED option available.** For single LED only, append **B** to the end of the order number. Single LEDs available for all colors. LED color and lens color must match. LED option is not available on units sold "less operating head".
Example: Single LED: 52PR8GSAB
- ② Replace asterisk (*) in LED part number with color option that matches lens. See replacement lamps on page 10/161, for complete catalog number.

- ③ EMERGENCY-STOP control devices according to IEC 60947-5-5 when provided with red operating head and 52BJK contact blocks.
- ④ Full Voltage modules are available with additional voltage ratings from the factory. For Incandescent lamps change the 6th Character to **B=6V**, **C=12V**, or **E=120V** (Example: Order 52PR8BRA for 6V Incandescent Lamp). For LED options change the 6th Character to **B=6V AC**, or **E=120V AC** (Example: Order 52PR8BRAB for 6V AC LED Lamp option).

Pushbutton Units and Indicator Lights

30 mm Heavy Duty, Watertight/Oiltight, Class 52

• Revised •
03/20/2012

Indicator lights

Selection and ordering data

	Version	Color of actuator	Contact blocks	Order no.	List Price	Order no.	List Price	Pack
				Plastic Lens	\$	Glass Lens	\$	
Pilot light	Indicator Light Integrated LED Module							
	24V AC/DC	red green amber		52PL4L2 52PL4L3 52PL4L9		52PL5L2 52PL5L3 52PL5L9		1
	120V AC	red green amber		52PL4M2 52PL4M3 52PL4M9		52PL5M2 52PL5M3 52PL5M9		1
	240V AC	red green amber		52PL4N2 52PL4N3 52PL4N9		52PL5N2 52PL5N3 52PL5N9		1
	Indicator Light Full Voltage^④							
	24V AC/DC with 52AADN, 24V 757 type lamp or option: XB = 52AED*, 24V Single LED ^③ XY = 52AED*7, 24V Cluster LED ^③	less operating head red green amber		52PL4DN 52PL4D2 52PL4D3 52PL4D9		52PL5DN 52PL5D2 52PL5D3 52PL5D9		1
	120V AC with 52AAENC1, 120 V 120MB type lamp or option: XB = 52AEE*, 120 V Single LED ^③ XY = 52AEE*7, 120 V Cluster LED ^③	less operating head red green amber		52PL4EN 52PL4E2 52PL4E3 52PL4E9		52PL5EN 52PL5E2 52PL5E3 52PL5E9		1
	Indicator Light Transformer^①							
	120V AC with 52AABN, 6 V 755 type lamp or option: XB = 52AEB*, 6 V Single LED ^③ XY = 52AEB*7, 6 V Cluster LED ^③	less operating head red green amber		52PL4GN 52PL4G2 52PL4G3 52PL4G9		52PL5GN 52PL5G2 52PL5G3 52PL5G9		1
	240V AC with 52AABN, 6 V 755 type lamp or option: XB = 52AEB*, 6 V Single LED ^③ XY = 52AEB*7, 6 V Cluster LED ^③	less operating head red green amber		52PL4HN 52PL4H2 52PL4H3 52PL4H9		52PL5HN 52PL5H2 52PL5H3 52PL5H9		1
	480V AC with 52AABN, 6 V 755 type lamp or option: XB = 52AEB*, 6 V Single LED ^③ XY = 52AEB*7, 6 V Cluster LED ^③	less operating head red green amber		52PL4JN 52PL4J2 52PL4J3 52PL4J9		52PL5JN 52PL5J2 52PL5J3 52PL5J9		1
	600V AC with 52AABN, 6 V 755 type lamp or option: XB = 52AEB*, 6 V Single LED ^③ XY = 52AEB*7, 6 V Cluster LED ^③	less operating head red green amber		52PL4KN 52PL4K2 52PL4K3 52PL4K9		52PL5KN 52PL5K2 52PL5K3 52PL5K9		1

Technical Specifications
on page 10/169A

Color code table^②: blue
clear
white

5
A
B

5
A
B

① **LED option available.** For single LED, append **XB** to the end of the order number. For a cluster LED, append **XY** to the end of the order number. Single LEDs available for all colors, while cluster LEDs are available for red, green and amber only. LED color and lens color must match. LED option is not available on units sold "less operating head".
Example: Single LED: 52PL5G3**XB** Cluster LED: 52PL5G3**XY**

② To order a color option, replace the last digit of the order number.

③ Replace asterisk (*) in LED part number with color option that matches lens. See replacement lamps on page 10/161, for complete catalog number.

④ Full Voltage modules are available with additional voltage ratings from the factory. For Incandescent lamps change the 6th Character to **B**=6V, or **C**=12V (Example: Order 52PL4**B**2 for 6V Incandescent Lamp). For LED options change the 6th Character to **B**=6V AC (Example: Order 52PL4**B**2XB for 6V AC LED Lamp option).

• Revised •
03/20/2012

Pushbutton Units and Indicator Lights

30 mm Heavy Duty, Watertight/Oiltight, Class 52

Push-to-test complete units

Selection and ordering data

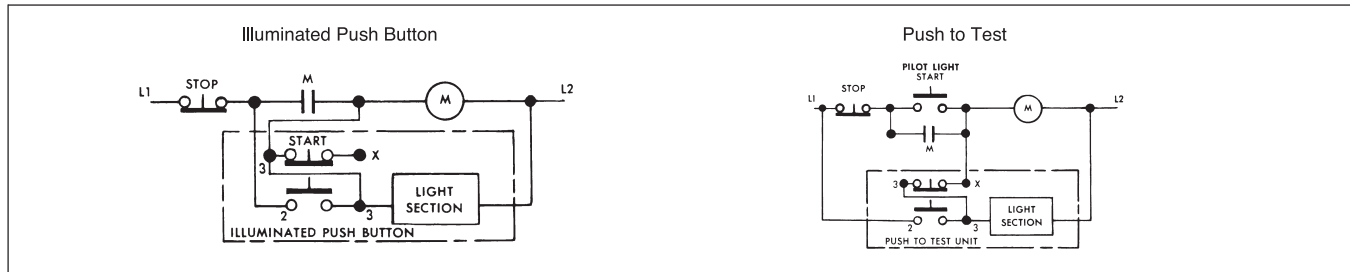
Version	Color of actuator	Contact blocks	Order no.	List Price	Order no.	List Price	Pack
			Operators with Incandescent lamp	\$	Operators with LED lamp^③	\$	Unit
Pilot light							
Indicator light with plastic lens - Resistor type AC^{①②}							
240 V, 52PC4N with 52AAENC1, 120 V 120MB type lamp or	red		52PC4N2		52PE4N2		1
240 V, 52PE4N with 52AEE* Single-LED ^④	green		52PC4N3		52PE4N3		
	amber		52PC4N9		52PE4N9		
	less lens		52PC4NN		—		
Push to test indicator light with plastic lens - Resistor type AC/DC^④							
120V with 24V 757 type lamp, or 24V LED	red	1NC + 1NO	52PA6M2A		52PE6M2A		1
	green	1NC + 1NO	52PA6M3A		52PE6M3A		
	amber	1NC + 1NO	52PA6M9A		52PE6M9A		
	less lens	1NC + 1NO	52PA6MNA		—		
240V with 24V 757 type lamp, or 24V LED	red	1NC + 1NO	52PA6N2A		52PE6N2A		1
	green	1NC + 1NO	52PA6N3A		52PE6N3A		
	amber	1NC + 1NO	52PA6N9A		52PE6N9A		
	less lens	1NC + 1NO	52PA6NNA		—		

Color code table^②: blue
clear
white

5
A
B

5
A
B

Wiring Diagrams



Technical Specifications
on page 10/169A

- ① All illuminated devices come with std. Touch-safe shield per UL standards except where noted (Resistor Type Pilot Devices are not touch safe).
- ② For factory installed glass lens, replace the 5th character with "5".

- ③ LED color and lens color must match. LED option is not available on units sold "less operating head". Resistor Type Pilot Devices with Standard Incandescent lamps are provided with different value resistors than pilot devices ordered using the LED option. LED lamps can only be installed in pilot lights that are ordered from the factory utilizing the LED option suffix.

- ④ For factory installed lens guard, add suffix "V".
- ⑤ Replace asterisk (*) in LED part number with color option that matches lens. See replacement lamps on page 10/161, for complete catalog number.

Pushbutton Units and Indicator Lights



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• Revised •
03/20/2012


Pushbutton Units and Indicator Lights

30 mm Heavy Duty, Watertight/Oiltight, Class 52

Pushbutton operators only

1
2
3
4
5
6
7
8
9
10

Selection and ordering data

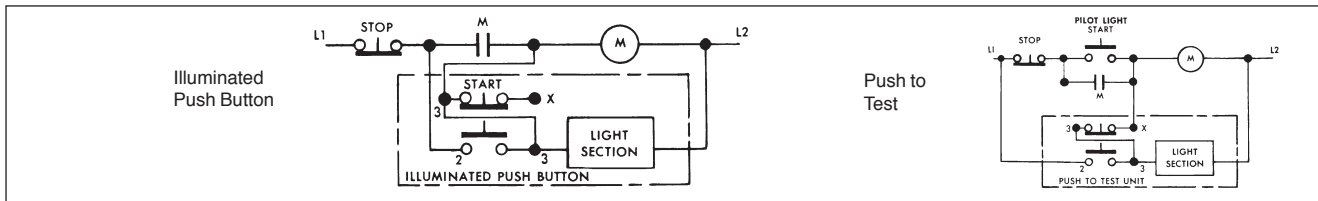
Version	Color of actuator	Contact blocks	Order no.	List Price	Pack	
Plastic Lens^④						
				\$	Unit	
	Illuminated pushbutton / Push to test Integrated LED Module					
	24V AC/DC	red green amber	1NO - 1NC	52PT6L2A 52PT6L3A 52PT6L9A	1	
	120V AC	red green amber	1NO - 1NC	52PT6M2A 52PT6M3A 52PT6M9A	1	
	240V AC	red green amber	1NO - 1NC	52PT6N2A 52PT6N3A 52PT6N9A	1	
	Illuminated pushbutton / Push to test Full Voltage^{⑤⑥}					
	24V AC/DC with 52AADN, 24V 757 type lamp or option: B = 52AED*, 24V Single LED3)	less operating head red green amber	1NO - 1NC	52PT6DNA 52PT6D2A 52PT6D3A 52PT6D9A	1	
	Illuminated pushbutton / Push to test Transformer^①					
	120V AC with 52AABN, 6 V 755 type lamp or option: B = 52AEB*, 6 V Single LED3)	less operating head red green amber	1NO - 1NC	52PT6GNA 52PT6G2A 52PT6G3A 52PT6G9A	1	
	240V AC with 52AABN, 6 V 755 type lamp or option: B = 52AEB*, 6 V Single LED3)	less operating head red green amber	1NO - 1NC	52PT6HNA 52PT6H2A 52PT6H3A 52PT6H9A	1	
	480V AC with 52AABN, 6 V 755 type lamp or option: B = 52AEB*, 6 V Single LED3)	less operating head red green amber	1NO - 1NC	52PT6JNA 52PT6J2A 52PT6J3A 52PT6J9A	1	
	600V AC with 52AABN, 6 V 755 type lamp or option: B = 52AEB*, 6 V Single LED3)	less operating head red green amber	1NO - 1NC	52PT6KNA 52PT6K2A 52PT6K3A 52PT6K9A	1	

5
A
B

Technical Specifications on page 10/169A

Color code table^②: blue
clear
white

Wiring Diagrams



- ① **LED option available.** For single LED only, append **B** to the end of the order number. Single LEDs available for all colors. LED color and lens color must match. LED option is not available on units sold "less operating head" Example: Single LED: 52PT6D3AB (Cluster LED option is not available for PTT Pilot Lights.)
- ② To order a color option, replace the 7th digit of the order number.
- ③ Replace asterisk (*) in LED part number with color option that matches lens. See replacement lamps on page 10/161, for complete catalog number.

- ④ 52AAGL Chrome Lens Guard is available for Push-to-test/Illuminated Pushbuttons and Indicator Lights.
- ⑤ Full Voltage modules are available with additional voltage ratings from the factory. For Incandescent lamps change the 6th Character to **B**=6V, **C**=12V, or **E**=120V (Example: Order 52PT6**B**2A for 6V Incandescent Lamp). For LED options change the 6th Character to **B**=6V AC, or **E**=120V AC (Example: Order 52PT6**B**2AB for 6V AC LED Lamp option).



Pushbutton Units and Indicator Lights

30 mm Heavy Duty, Watertight/Oiltight, Class 52

• Revised •
03/20/2012

Selector switch complete units

Selection and ordering data

Version	Lever type	Contact blocks	Cam ^①	Order no.	List Price	Pack		
					\$	unit		
Selector Switches with 2 switching positions								
Short lever assembled selector switch 	Maintained operation	Short lever, non-Illuminated	1NO	A	52SA2AABK1	1		
		Short lever, non-Illuminated	1NC	A	52SA2AABJ1			
		Short lever, non-Illuminated	1NO + 1NC	A	52SA2AABA1			
		Long lever, non-Illuminated	1NO	A	52SB2AABK1			
		Long lever, non-Illuminated	1NC	A	52SB2AABJ1			
		Long lever, non-Illuminated	1NO + NC	A	52SB2AABA1			
	Spring return from right operation	Short lever, non-Illuminated	1NO	A	52SA2ACBK1		1	
		Short lever, non-Illuminated	1NC	A	52SA2ACBJ1			
		Short lever, non-Illuminated	1NO + 1NC	A	52SA2ACBA1			
		Long lever, non-Illuminated	1NO	A	52SB2ACBK1			
		Long lever, non-Illuminated	1NC	A	52SB2ACBJ1			
		Long lever, non-Illuminated	1NO + 1NC	A	52SB2ACBA1			
	Selector Switches with 3 switching positions							
	Long lever assembled selector switch 	Maintained operation	Short lever, non-Illuminated	1NO + 1NC	C		52SA2CABA1	1
Short lever, non-Illuminated			2NC + 1NO	G	52SA2GABJ2K1			
Short lever, non-Illuminated			2NO + 2NC	C	52SA2CABA2			
Long lever, non-Illuminated			1NO + 1NC	C	52SB2CABA1			
Long lever, non-Illuminated			2NC + 1NO	G	52SB2GABJ2K1			
Long lever, non-Illuminated			2NO + 2NC	C	52SB2CABA2			
Spring return from right		Short lever, non-Illuminated	1NO + 1NC	C	52SA2CCBA1	1		
		Short lever, non-Illuminated	2NC + 1NO	G	52SA2GCBJ2K1			
		Short lever, non-Illuminated	2NO + 2NC	C	52SA2CCBA2			
		Long lever, non-Illuminated	1NO + 1NC	C	52SB2CCBA1			
		Long lever, non-Illuminated	2NC + 1NO	G	52SB2GCBJ2K1			
		Long lever, non-Illuminated	2NO + 2NC	C	52SB2CCBA2			
Spring return from left		Short lever, non-Illuminated	1NO + 1NC	C	52SA2CBBA1	1		
		Short lever, non-Illuminated	2NC + 1NO	G	52SA2GBBJ2K1			
		Short lever, non-Illuminated	2NO + 2NC	C	52SA2CBBA2			
		Long lever, non-Illuminated	1NO + 1NC	C	52SB2CBBA1			
		Long lever, non-Illuminated	2NC + 1NO	G	52SB2GBBJ2K1			
		Long lever, non-Illuminated	2NO + 2NC	C	52SB2CBBA2			
Spring return from right & left operation	Short lever, non-Illuminated	1NO + 1NC	C	52SA2CDBA1	1			
	Short lever, non-Illuminated	2NC + 1NO	G	52SA2GDBJ2K1				
	Short lever, non-Illuminated	2NO + 2NC	C	52SA2CDBA2				
	Long lever, non-Illuminated	1NO + 1NC	C	52SB2CDBA1				
	Long lever, non-Illuminated	2NC + 1NO	G	52SB2GDBJ2K1				
	Long lever, non-Illuminated	2NO + 2NC	C	52SB2CDBA2				

Technical Specifications
on page 10/169A

① For contact operation, see cam selection table on page 10/156.


• Revised •
03/20/2012

Pushbutton Units and Indicator Lights

30 mm Heavy Duty, Watertight/Oiltight, Class 52

Keyed selector switch complete units

Selection and ordering data

Version	Lever type	Contact blocks	Cam ^①	Order no.	List Price	Pack
					\$	unit
Key-operated selector switches, 2 switching positions						
Assembled keyed selector switch 	Maintained operation	Key removable in left positions	1NO	A	52SC6AFK1	1
		Key removable in left positions	1NC	A	52SC6AFJ1	
		Key removable in left positions	1NO + 1NC	A	52SC6AFA1	
	Spring return from right operation	Key removable in all positions	1NO	A	52SC6AEK1	1
			1NC	A	52SC6AEJ1	
			1NO + 1NC	A	52SC6AEA1	
	Spring return from right operation	Key removable in left positions	1NO	A	52SC6AXK1	1
			1NC	A	52SC6AXJ1	
			1NO + 1NC	A	52SC6AXA1	
Key-operated selector switches, 3 switching positions						
	Maintained operation	Key removable in all positions	1NC + 1NO	C	52SC6CEA1	1
		Key removable in all positions	2NC + 1NO	G	52SC6GEJ2K1	
		Key removable in all positions	2NO + 2NC	C	52SC6CEA2	
	Spring return from right operation	Key removable in all positions	1NO + 1NC	C	52SC6CZA1	1
			2NC + 1NO	G	52SC6GZJ2K1	
			2NO + 2NC	C	52SC6CZA2	
	Spring return from left operation	Key removable in all positions	1NO + 1NC	C	52SC6CUA1	1
			2NC + 1NO	G	52SC6GUJ2K1	
			2NO + 2NC	C	52SC6CUA2	
Spring return from right & left operation	Key removable in all positions	1NO + 1NC	C	52SC6CVA1	1	
		2NC + 1NO	G	52SC6GVJ2K1		
		2NO + 2NC	C	52SC6CVA2		

Technical Specifications
on page 10/169A

① For contact operation, see cam selection table on page 10/156.


Pushbutton Units and Indicator Lights

30 mm Heavy Duty, Watertight/Oiltight, Class 52

• Revised •
03/20/2012

Pushbutton and push-pull operators

Selection and ordering data

Version	Color of actuator	Order no.	List Price	Pack	
			\$	Unit	
Pushbutton with flush cap Flush pushbutton operator 	black	52PA8A1		1	
	red	52PA8A2			
	green	52PA8A3			
	yellow	52PA8A4			
	blue	52PA8A5			
	gray	52PA8A6			
	orange	52PA8A8			
	less cap	52PA8			
	kit with all colors	52PA8AN			
	<hr/>				
	Pushbutton with extended cap	black	52PA8B1		1
		red	52PA8B2		
		green	52PA8B3		
		yellow	52PA8B4		
blue		52PA8B5			
gray		52PA8B6			
orange		52PA8B8			
less cap		52PA8			
kit with all colors		52PA8BN			
<hr/>					
Pushbutton with mushroom cap 1 5/8" (41.3mm), set screw	black	52PB9D1		1	
	red	52PB9D2			
	green	52PB9D3			
	yellow	52PB9D4			
	blue	52PB9D5			
	gray	52PB9D6			
	orange	52PB9D8			
	less cap	52PB9			
	kit with all colors	52PB9DN			
	<hr/>				
2 1/2" (63.5mm), set screw	black	52PB9E1		1	
	red	52PB9E2			
	green	52PB9E3			
	yellow	52PB9E4			
	blue	52PB9E5			
	gray	52PB9E6			
	orange	52PB9E8			
	less cap	52PB9			
	less cap with lens kit	52PB9EN			
	<hr/>				
2 position push pull maintained, non illuminated					
Metal Mushroom Head, 1 3/4" (44.5 mm) threaded on	red	52PP2A2		1	
	green	52PP2A3			
	chrome	52PP2AC			
Small Plastic Mushroom Head, 1 3/4" (44.5 mm) threaded on	black	52PP2W1		1	
	red	52PP2W2			
	green	52PP2W3			
Large Plastic Mushroom Head, 2 1/2" (63.5 mm) threaded on	black	52PP2V1		1	
	red	52PP2V2			
	green	52PP2V3			
<hr/>					
2 position twist to release, maintained, non-illuminated					
Small Plastic Mushroom Head, 1 3/4" (44.5 mm) threaded on	red	52PR8W2		1	
	green	52PR8W3			
	yellow	52PR8W4			

Technical Specifications
on page 10/169A

Selection and ordering data

Version	Lever type	Color of lever insert	Input Voltage	Cam Code ^②	Order no.	List Price \$	Pack unit
Selector Switches with 2 switching positions							
Maintained operation	Non-Illuminated, short lever	White		A	52SA2AAB		1
	Non-Illuminated, long lever	White		A	52SB2AAB		
	Illuminated, short lever ^① with full voltage 24V, 755 type lamp		24V	A	52SA7ADN		1
	Illuminated, short lever ^① with 50/60 Hz transformer 6V, 755 type lamp		24V 120V 240V	A A A	52SA7ALN 52SA7AGN 52SA7AHN		1
Spring return from right operation	Non-Illuminated, short lever	White		A	52SA2ACB		1
	Non-Illuminated, long lever	White		A	52SB2ACB		
Selector Switches with 3 switching positions							
Maintained operation	Non-Illuminated, short lever	White		B	52SA2BAB		1
	Non-Illuminated, long lever	White		B	52SB2BAB		
	Non-Illuminated, short lever	White		C	52SA2CAB		
	Non-Illuminated, long lever	White		C	52SB2CAB		
	Non-Illuminated, short lever	White		D	52SA2DAB		
	Non-Illuminated, long lever	White		D	52SB2DAB		
	Non-Illuminated, short lever	White		E	52SA2EAB		
	Non-Illuminated, long lever	White		E	52SB2EAB		
	Non-Illuminated, short lever	White		G	52SA2GAB		
Non-Illuminated, long lever	White		G	52SB2GAB			
	Illuminated, short lever ^① with full voltage 24V, 757 type lamp		24V 24V	B C ^③	52SA7BDN 52SA7CDN		1
	Illuminated, short lever ^① with 50/60 Hz transformer 6V, 755 type lamp		24V 120V 120V 240V 240V	B C B C ^③ B C ^③	52SA7BLN 52SA7CLN 52SA7BGN 52SA7CGN 52SA7BHN 52SA7CHN		1
Spring return from right operation	Non-Illuminated, short lever	White		B	52SA2BCB		1
	Non-Illuminated, long lever	White		B	52SB2BCB		
	Non-Illuminated, short lever	White		C ^③	52SA2CCB		
	Non-Illuminated, long lever	White		C ^③	52SB2CCB		
	Non-Illuminated, short lever	White		D	52SA2DCB		
	Non-Illuminated, long lever	White		D	52SB2DCB		
	Non-Illuminated, short lever	White		E	52SA2ECB		
	Non-Illuminated, long lever	White		E	52SB2ECB		
	Non-Illuminated, short lever	White		G	52SA2GCB		
Non-Illuminated, long lever	White		G	52SB2GCB			
Spring return from left operation	Non-Illuminated, short lever	White		B	52SA2BBB		1
	Non-Illuminated, long lever	White		B	52SB2BBB		
	Non-Illuminated, short lever	White		C ^③	52SA2CBB		
	Non-Illuminated, long lever	White		C ^③	52SB2CBB		
	Non-Illuminated, short lever	White		D	52SA2DBB		
	Non-Illuminated, long lever	White		D	52SB2DBB		
	Non-Illuminated, short lever	White		E	52SA2EBB		
	Non-Illuminated, long lever	White		E	52SB2EBB		
	Non-Illuminated, short lever	White		G	52SA2GBB		
Non-Illuminated, long lever	White		G	52SB2GBB			
Spring return from left and right operation	Non-Illuminated, short lever	White		B	52SA2BDB		1
	Non-Illuminated, long lever	White		B	52SB2BDB		
	Non-Illuminated, short lever	White		C ^③	52SA2CDB		
	Non-Illuminated, long lever	White		C ^③	52SB2CDB		
	Non-Illuminated, short lever	White		D	52SA2DDB		
	Non-Illuminated, long lever	White		D	52SB2DDB		
	Non-Illuminated, short lever	White		E	52SA2EDB		
	Non-Illuminated, long lever	White		E	52SB2EDB		
	Non-Illuminated, short lever	White		G	52SA2GDB		
Non-Illuminated, long lever	White		G	52SB2GDB			
Selector Switches with 4 switching positions							
Maintained operation	Non-Illuminated, short lever	White		H	52SA2HAB		1
	Non-Illuminated, long lever	White		H	52SB2HAB		

Technical Specifications
on page 10/169A

^① Illuminated selector switches are provided without lenses. Lens kit must be ordered separately on page 10/159.

^② For contact operation, see cam selection chart on page 10/156.

^③ C- Cam on spring return selectors is limited to 4 contact blocks, 1 or 2 pole.


Pushbutton Units and Indicator Lights

30 mm Heavy Duty, Watertight/Oiltight, Class 52

• Revised •
03/20/2012

Selector switch operators

Selection and ordering data

Version	Button	Color of lever insert	Cam Code ①	Order no.	List Price	Pack	
					\$	unit	
Selector Pushbutton Operators - 2 Position							
	NEMA 12/13 only	Flush	Black	P	52SA3P1	1	
		Flush	Black	Q	52SA3Q1		
		Flush	Black	R	52SA3R1		
			Flush	Red	P	52SA3P2	1
			Flush	Red	Q	52SA3Q2	
			Flush	Red	R	52SA3R2	
			Extended 1/2"	Black	P	52SA4P1	1
			Extended 1/2"	Black	Q	52SA4Q1	
			Extended 1/2"	Black	R	52SA4R1	
			Extended 1/2"	Red	P	52SA4P2	1
			Extended 1/2"	Red	Q	52SA4Q2	
			Extended 1/2"	Red	R	52SA4R2	
Selector Pushbutton Operators - 3 Position							
NEMA 12/13 only	Flush	Black	S	52SA3S1	1		
	Flush	Red	S	52SA3S2			
	Extended 1/2"	Black	S	52SA4S1	1		
	Extended 1/2"	Red	S	52SA4S2			

Technical Specifications
on page 10/169A

① For contact operation, see cam selection chart on page 10/156.

• Revised •
03/20/2012

Pushbutton Units and Indicator Lights

30 mm Heavy Duty, Watertight/Oiltight, Class 52

Keyed selector switch operators

Selection and ordering data



Version	Key removal position	Lock No.	Cam Code ^①	Order no.	List Price \$	Pack unit	
Key-operated selector Switches with 2 switching positions							
Maintained operation	Both	501CH	A	52SC6AE		1	
	Left	501CH	A	52SC6AF		1	
Spring return from right operation	Center	501CH	A	52SC6AX		1	
Key-operated selector Switches with 3 switching positions							
Maintained operation	All	501CH	B	52SC6BE		1	
			C	52SC6CE			
			D	52SC6DE			
	Left	501CH	B	52SC6BF		1	
			C	52SC6CF			
			D	52SC6DF			
	Right	501CH	B	52SC6BG		1	
			C	52SC6CG			
			D	52SC6DG			
	Center	501CH	B	52SC6BH		1	
			C	52SC6CH			
			D	52SC6DH			
Left and right	501CH	B	52SC6BJ		1		
		C	52SC6CJ				
		D	52SC6DJ				
Left and center	501CH	B	52SC6BK		1		
		C	52SC6CK				
		D	52SC6DK				
Right and center	501CH	B	52SC6BK		1		
		C	52SC6CK				
		D	52SC6DK				
Spring return from right operation	Center	501CH	B	52SC6BU		1	
			C ^②	52SC6CU			
			D	52SC6DU			
	Left and center	501CH	B	52SC6BU		1	
			C ^②	52SC6CU			
			D	52SC6DU			
	Spring return from left operation	Center	501CH	B	52SC6BT		1
				C ^②	52SC6CT		
				D	52SC6DT		
		Right	501CH	B	52SC6BW		1
				C ^②	52SC6CW		
				D	52SC6DW		
Center and right	501CH	B	52SC6BY		1		
		C ^②	52SC6CY				
		D	52SC6DY				
Spring return from left and right operation	Center	501CH	B	52SC6BV		1	
			C ^②	52SC6CV			
			D	52SC6DV			
				E	52SC6EV		1
				F	52SC6FV		
				G	52SC6GV		
				5			
				X298			
				X299			
				X300			
				X301			
				X302			

Technical Specifications on page 10/169A

Lock types keyed different from standard are available- up to 30 different keys:

1) To order 1 to 25 special locks for keyed selector switches simply replace the 6 in the 5th digit of the catalog number with a 5 when entering your order (Ordering Example: 52SC6AE is changed to 52SC5AE and all locks - up to 25 will be unique).

2) To order the specific lock types shown to the right, simply append the corresponding 'X' suffix to a standard part number (Ordering Example: 52SC6AEX298).

Note: Same list price applies as standard keyed locks.

^① For contact operation, see cam selection chart on page 10/156.

^② C cam limited to 4 single or double pole blocks on spring return operators





Pushbutton Units and Indicator Lights

30 mm Heavy Duty, Watertight/Oiltight, Class 52

• Revised •
03/20/2012

Special devices

Selection and ordering data

	Version	Ohms / color	Order no.	List Price	Pack
				\$	Unit
	Potentiometer operator	50	52MA3B01		1
	2 Watts, 500 V AC/DC (Type 12/3 only)	150	52MA3B03		
		250	52MA3B04		
		500	52MA3B06		
		750	52MA3B07		
		1 K	52MA3B08		
		2.5 K	52MA3B10		
		5 K	52MA3B12		
		10 K	52MA3B14		
		15 K	52MA3B15		
		25 K	52MA3B16		
		50 K	52MA3B18		
		100 K	52MA3B20		
		150 K	52MA3B21		
		250 K	52MA3B22		
		500 K	52MA3B24		
	1 M	52MA3B26			
	1.5 M	52MA3B27			
	2 M	52MA3B28			
	5 M	52MA3B31			
	2 Button maintained operator	black (flush) / red (flush)	52MA2A1A2		1
		black (flush) / red (extended)	52MA2A1B2		
		black (flush) / yellow (mushroom)	52MA2A1D4		
		green (flush) / red (flush)	52MA2A3A2		
		green (flush) / red (extended)	52MA2A3B2		
		green (flush) / red (mushroom)	52MA2A3D2		
		green (flush) / green (mushroom)	52MA2A3D3		
	Button remains depressed when pushed	less caps	52MA2		
	Wobble stick 2.5" operator	red	52ABW2 ^①		1
	For use with 52BAJ (NC) contact block	green	52ABW3 ^①		
		grey	52ABW6 ^①		
	Maintained toggle operator		52ABT		1

Technical Specifications
on page 10/169A

^① For use with 52BAJ (NC) contact block




• Revised •
03/20/2012

Pushbutton Units and Indicator Lights

30 mm, Black Max Corrosion Resistant, Class 52

Complete units

Selection and ordering data

Version	Color of actuator	Contact blocks	Flush cap order no.①	Extended cap order no.①	List Price	Mushroom head order no.①	List Price	Pack	
					\$		\$	Unit	
Pushbutton unit with assembled contact blocks	black	1 NO	52PX8A1K	52PX8B1K		52PX9□1K		1	
	red	1 NO	52PX8A2K	52PX8B2K		52PX9□2K			
	green	1 NO	52PX8A3K	52PX8B3K		52PX9□3K			
	yellow	1 NO	52PX8A4K	52PX8B4K		52PX9□4K			
Flush assembled pushbutton		blue	1 NO	52PX8A5K	52PX8B5K		52PX9□5K	1	
		gray	1 NO	52PX8A6K	52PX8B6K		52PX9□6K		
		orange	1 NO	52PX8A8K	52PX8B8K		52PX9□8K		
		black	1 NC	52PX8A1J	52PX8B1J		52PX9□1J	1	
	red	1 NC	52PX8A2J	52PX8B2J		52PX9□2J			
	green	1 NC	52PX8A3J	52PX8B3J		52PX9□3J			
	yellow	1 NC	52PX8A4J	52PX8B4J		52PX9□4J			
	blue	1 NC	52PX8A5J	52PX8B5J		52PX9□5J	1		
	gray	1 NC	52PX8A6J	52PX8B6J		52PX9□6J			
	orange	1 NC	52PX8A8J	52PX8B8J		52PX9□8J			
	Extended assembled pushbutton		black	1 NO + 1 NC	52PX8A1A	52PX8B1A		52PX9□1A	1
			red	1 NO + 1 NC	52PX8A2A	52PX8B2A		52PX9□2A	
green			1 NO + 1 NC	52PX8A3A	52PX8B3A		52PX9□3A		
yellow			1 NO + 1 NC	52PX8A4A	52PX8B4A		52PX9□4A		
blue		1 NO + 1 NC	52PX8A5A	52PX8B5A		52PX9□5A	1		
gray		1 NO + 1 NC	52PX8A6A	52PX8B6A		52PX9□6A			
orange		1 NO + 1 NC	52PX8A8A	52PX8B8A		52PX9□8A			
black		2 NO	52PX8A1F	52PX8B1F		52PX9□1F	1		
red		2 NO	52PX8A2F	52PX8B2F		52PX9□2F			
green		2 NO	52PX8A3F	52PX8B3F		52PX9□3F			
yellow		2 NO	52PX8A4F	52PX8B4F		52PX9□4F			
blue		2 NO	52PX8A5F	52PX8B5F		52PX9□5F	1		
gray	2 NO	52PX8A6F	52PX8B6F		52PX9□6F				
orange	2 NO	52PX8A8F	52PX8B8F		52PX9□8F				
Mushroom head assembled pushbutton		black	2 NC	52PX8A1G	52PX8B1G		52PX9□1G	1	
		red	2 NC	52PX8A2G	52PX8B2G		52PX9□2G		
		green	2 NC	52PX8A3G	52PX8B3G		52PX9□3G		
		yellow	2 NC	52PX8A4G	52PX8B4G		52PX9□4G		
	blue	2 NC	52PX8A5G	52PX8B5G		52PX9□5G	1		
	gray	2 NC	52PX8A6G	52PX8B6G		52PX9□6G			
	orange	2 NC	52PX8A8G	52PX8B8G		52PX9□8G			
	black	2 NO + 2 NC	52PX8A1B	52PX8B1B		52PX9□1B	1		
	red	2 NO + 2 NC	52PX8A2B	52PX8B2B		52PX9□2B			
	green	2 NO + 2 NC	52PX8A3B	52PX8B3B		52PX9□3B			
	yellow	2 NO + 2 NC	52PX8A4B	52PX8B4B		52PX9□4B			
	blue	2 NO + 2 NC	52PX8A5B	52PX8B5B		52PX9□5B	1		
gray	2 NO + 2 NC	52PX8A6B	52PX8B6B		52PX9□6B				
orange	2 NO + 2 NC	52PX8A8B	52PX8B8B		52PX9□8B				

Order no. change
Small operating head - 1⁵/₈" (41.3 mm)
Large operating head - 2.5" (63.5 mm)

D
E

Technical Specifications
on page 10/169A

① For other contact block assemblies, replace the 8th character of catalog number:
C = 3 NO + 3 NC
D = 4 NO + 4 NC
E = 1 NC (Early Break)
H = 1 no (Early Make)







Pushbutton Units and Indicator Lights

30 mm Black Max Corrosion Resistant, Class 52

• Revised •
03/20/2012

Push pull complete units

Selection and ordering data

	Version	Color of actuator	Contact blocks	Order no.	List Price	Order no.	List Price	Pack
				Plastic Head	\$	Metal Head	\$	Unit
2 Position push-pull non-illuminated   	2 Position Push Pull, Maintained^① Non-Illuminated 1 3/4" (44.5 mm) mushroom head	less operating head	1NO - 1NC	52BP2WZA		52BP2AZA		1
		red	1NO - 1NC	52BP2W2A		52BP2A2A		
		green	1NO - 1NC	52BP2W3A		52BP2A3A		
		yellow	1NO - 1NC	52BP2W4A		—		
		chrome	1NO - 1NC	—		52BP2ACA		
	2 1/2" (63.5 mm) mushroom head	less operating head	1NO - 1NC	52BP2VZA				1
		red	1NO - 1NC	52BP2V2A				
		green	1NO - 1NC	52BP2V3A				
		yellow	1NO - 1NC	52BP2V4A				
		chrome	1NO - 1NC	—				
3 Position push-pull non-illuminated   	3 Position Push Pull, Momentary Non-Illuminated (Pull to start, push to stop) ^① 1 3/4" (44.5 mm) mushroom head	less operating head	1NO - 1NC	52BP3WZU		52BP3AZU		1
		red	1NO - 1NC	52BP3W2U		52BP3A2U		
		green	1NO - 1NC	52BP3W3U		52BP3A3U		
		yellow	1NO - 1NC	52BP3W4U		—		
		chrome	1NO - 1NC	—		52BP3ACU		
	2 1/2" (63.5 mm) mushroom head	less operating head	1NO - 1NC	52BP3VZU				1
		red	1NO - 1NC	52BP3V2U				
		green	1NO - 1NC	52BP3V3U				
		yellow	1NO - 1NC	52BP3V4U				
		chrome	1NO - 1NC	—				
	3 Position Push Pull, Push Maintained, Pull Momentary Non-Illuminated (Pull to start, push to stop) ^① 1 3/4" (44.5 mm) mushroom head	less operating head	1NO - 1NC	52BP7WZU		52BP7AZU		1
		red	1NO - 1NC	52BP7W2U		52BP7A2U		
		green	1NO - 1NC	52BP7W3U		52BP7A3U		
		yellow	1NO - 1NC	52BP7W4U		—		
		chrome	1NO - 1NC	—		52BP7ACU		
2 1/2" (63.5 mm) mushroom head	less operating head	1NO - 1NC	52BP7VZU				1	
	red	1NO - 1NC	52BP7V2U					
	green	1NO - 1NC	52BP7V3U					
	yellow	1NO - 1NC	52BP7V4U					
	chrome	1NO - 1NC	—					

Color options^②: black
blue
grey
orange

1
5
6
8




Technical Specifications on page 10/169A

① Blocks cannot be interchanged (start-stop circuit).

② To order a color option, replace the 7th digit of the order number.

③ EMERGENCY-STOP control devices according to IEC 60947-5-5 when provided with red operating head and 52BJK contact blocks.

Selection and ordering data

	Version	Color of actuator	Contact blocks	Order no.	List Price	Order no.	List Price	Pack
				Plastic Head	\$	Metal Head	\$	Unit
2 Position push-pull illuminated   	2 Position Push Pull, Maintained^④ Illuminated, Integrated LED Module							
	24 V AC/DC 1 3/4" (44.5 mm) mushroom head	red green amber	1NO - 1NC 1NO - 1NC 1NO - 1NC	52BP2LRA 52BP2LSA 52BP2LTA		52BP2L2A 52BP2L3A 52BP2L9A		1
	120 V AC 1 3/4" (44.5 mm) mushroom head	red green amber	1NO - 1NC 1NO - 1NC 1NO - 1NC	52BP2MRA 52BP2MSA 52BP2MTA		52BP2M2A 52BP2M3A 52BP2M9A		1
	240 V AC 1 3/4" (44.5 mm) mushroom head	red green amber	1NO - 1NC 1NO - 1NC 1NO - 1NC	52BP2NRA 52BP2NSA 52BP2NTA		52BP2N2A 52BP2N3A 52BP2N9A		1
	2 Position Push Pull, Maintained^④ Illuminated, Full Voltage^⑤							
	24 V AC/DC 1 3/4" (44.5 mm) mushroom head with 52AADN, 24 V 757 type lamp or option: B = 52AED*, 24 V Single LED ^③	less operating head red green amber	1NO - 1NC 1NO - 1NC 1NO - 1NC 1NO - 1NC	52BP2DZA 52BP2DRA 52BP2DSA 52BP2DTA		52BP2DZA 52BP2D2A 52BP2D3A 52BP2D9A		1
	2 Position Push Pull, Maintained^④ Illuminated, Transformer^①							
	120 V AC 1 3/4" (44.5 mm) mushroom head with 52AABN, 6 V 755 type lamp or option: B = 52AEB*, 6 V Single LED ^③	less operating head red green amber	1NO - 1NC 1NO - 1NC 1NO - 1NC 1NO - 1NC	52BP2GZA 52BP2GRA 52BP2GSA 52BP2GTA		52BP2GZA 52BP2G2A 52BP2G3A 52BP2G9A		1
	240 V AC 1 3/4" (44.5 mm) mushroom head with 52AABN, 6 V 755 type lamp or option: B = 52AEB*, 6 V Single LED ^③	less operating head red green amber	1NO - 1NC 1NO - 1NC 1NO - 1NC 1NO - 1NC	52BP2HZA 52BP2HRA 52BP2HSA 52BP2HTA		52BP2HZA 52BP2H2A 52BP2H3A 52BP2H9A		1
	480 V AC 1 3/4" (44.5 mm) mushroom head with 52AABN, 6 V 755 type lamp or option: B = 52AEB*, 6 V Single LED ^③	less operating head red green amber	1NO - 1NC 1NO - 1NC 1NO - 1NC 1NO - 1NC	52BP2JZA 52BP2JRA 52BP2JSA 52BP2JTA		52BP2JZA 52BP2J2A 52BP2J3A 52BP2J9A		1
	600V AC 1 3/4" (44.5 mm) mushroom head with 52AABN, 6 V 755 type lamp or option: B = 52AEB*, 6 V Single LED ^③	less operating head red green amber	1NO - 1NC 1NO - 1NC 1NO - 1NC 1NO - 1NC	52BP2KZA 52BP2KRA 52BP2KSA 52BP2KTA		52BP2KZA 52BP2K2A 52BP2K3A 52BP2K9A		1

Color options^②: blue
clear
white

5
A
B

Technical Specifications
on page 10/169A

① LED option available. For single LED only, append **B** to the end of the order number. Single LEDs available for all colors. LED color and lens color must match. LED option is not available on units sold "less operating head".
Example: Single LED: 52BP2HRA**B**

② To order a color option, replace the 7th digit of the order number.

③ Replace asterisk (*) in LED part number with color option that matches lens. See replacement lamps on page 10/161, for complete catalog number.

④ EMERGENCY-STOP control devices according to IEC 60947-5-5 when provided with red operating head and 52BJK contact blocks.

⑤ Full Voltage modules are available with additional voltage ratings from the factory. For Incandescent lamps change the 6th Character to **B**=6V, **C**=12V, or **E**=120V (Example: Order 52BP2**B**2A for 6V Incandescent Lamp). For LED options change the 6th Character to **B**=6V AC, or **E**=120V AC (Example: Order 52BP2**B**2AB for 6V AC LED Lamp option).




Pushbutton Units and Indicator Lights

30 mm Black Max Corrosion Resistant, Class 52

• Revised •
03/20/2012

Push pull complete units

Selection and ordering data

	Version	Color of actuator	Contact blocks	Order no.	List Price	Order no.	List Price	Pack
				Plastic Head	\$	Metal Head	\$	Unit
3 Position push-pull illuminated   	3 Position Push Pull, Momentary Illuminated, Integrated LED Module 24 V AC/DC 1 3/4" (44.5 mm) mushroom head	red green amber	1NO - 1NC 1NO - 1NC 1NO - 1NC	52BP3LRU 52BP3LSU 52BP3LTU		52BP3L2U 52BP3L3U 52BP3L9U		1
	120 V AC 1 3/4" (44.5 mm) mushroom head	red green amber	1NO - 1NC 1NO - 1NC 1NO - 1NC	52BP3MRU 52BP3MSU 52BP3MTU		52BP3M2U 52BP3M3U 52BP3M9U		1
	240 V AC 1 3/4" (44.5 mm) mushroom head	red green amber	1NO - 1NC 1NO - 1NC 1NO - 1NC	52BP3NRU 52BP3NSU 52BP3NTU		52BP3N2U 52BP3N3U 52BP3N9U		1
	3 Position Push Pull, Momentary Illuminated, Full Voltage^{①③} (Pull to start, push to stop) ^② 24 V AC/DC 1 3/4" (44.5 mm) mushroom head with 52AADN, 24 V 757 type lamp or option: B = 52AED*, 24 V Single LED ^④	less operating head red green amber	1NO - 1NC 1NO - 1NC 1NO - 1NC 1NO - 1NC	52BP3DZU 52BP3DRU 52BP3DSU 52BP3DTU		52BP3D2U 52BP3D3U 52BP3D9U		1
	3 Position Push Pull, Momentary Illuminated, Transformer^① (Pull to start, push to stop) ^② 120 V AC 1 3/4" (44.5 mm) mushroom head with 52AABN, 6 V 755 type lamp or option: B = 52AEB*, 6 V Single LED ^④	less operating head red green amber	1NO - 1NC 1NO - 1NC 1NO - 1NC 1NO - 1NC	52BP3GZU 52BP3GRU 52BP3GSU 52BP3GTU		52BP3G2U 52BP3G3U 52BP3G9U		1
	240 V AC 1 3/4" (44.5 mm) mushroom head with 52AABN, 6 V 755 type lamp or option: B = 52AEB*, 6 V Single LED ^④	less operating head red green amber	1NO - 1NC 1NO - 1NC 1NO - 1NC 1NO - 1NC	52BP3HZU 52BP3HRU 52BP3HSU 52BP3HTU		52BP3H2U 52BP3H3U 52BP3H9U		1
	480 V AC 1 3/4" (44.5 mm) mushroom head with 52AABN, 6 V 755 type lamp or option: B = 52AEB*, 6 V Single LED ^④	less operating head red green amber	1NO - 1NC 1NO - 1NC 1NO - 1NC 1NO - 1NC	52BP3JZU 52BP3JRU 52BP3JSU 52BP3JTU		52BP3J2U 52BP3J3U 52BP3J9U		1
	600V AC 1 3/4" (44.5 mm) mushroom head with 52AABN, 6 V 755 type lamp or option: B = 52AEB*, 6 V Single LED ^④	less operating head red green amber	1NO - 1NC 1NO - 1NC 1NO - 1NC 1NO - 1NC	52BP3KZU 52BP3KRU 52BP3KSU 52BP3KTU		52BP3K2U 52BP3K3U 52BP3K9U		1

Color options^③: blue
clear
white

5
A
B

Technical Specifications
on page 10/169A

① **LED option available.** For single LED only, append **B** to the end of the order number. Single LEDs available for all colors. LED color and lens color must match. LED option is not available on units sold "less operating head".
Example: Single LED: 52BP3G2U**B**

② Blocks cannot be interchanged (start-stop circuit).

③ To order a color option, replace the 7th digit of the order number.

④ Replace asterisk (*) in LED part number with color option that matches lens. See replacement lamps on page 10/161 for complete catalog number.

⑤ Full Voltage modules are available with additional voltage ratings from the factory. For Incandescent lamps change the 6th Character to **B**=6V, **C**=12V, or **E**=120V (Example: Order 52BP3**B**2U for 6V Incandescent Lamp). For LED options change the 6th Character to **B**=6V AC, or **E**=120V AC (Example: Order 52BP3**B**2UB for 6V AC LED Lamp option).


• Revised •
03/20/2012

Pushbutton Units and Indicator Lights

30 mm Black Max Corrosion Resistant, Class 52

Push pull complete units

Selection and ordering data

	Version	Color of actuator	Contact blocks	Order no.	List Price	Order no.	List Price	Pack
				Plastic Head	\$	Metal Head	\$	Unit
3 Position push-pull illuminated	3 Position Push Pull, Push Maintained, Pull Momentary Illuminated, Integrated LED Module (Pull to start, push to stop) ^②	24 V AC/DC 1 3/4" (44.5 mm) mushroom head	red green amber	1NO - 1NC 1NO - 1NC 1NO - 1NC	52BP7LRU 52BP7LSU 52BP7LTU	52BP7L2U 52BP7L3U 52BP7L9U		1
		120 V AC 1 3/4" (44.5 mm) mushroom head	red green amber	1NO - 1NC 1NO - 1NC 1NO - 1NC	52BP7MRU 52BP7MSU 52BP7MTU	52BP7M2U 52BP7M3U 52BP7M9U		1
	3 Position Push Pull, Push Maintained, Pull Momentary Illuminated, Full Voltage^{①③} (Pull to start, push to stop) ^②	240 V AC 1 3/4" (44.5 mm) mushroom head	red green amber	1NO - 1NC 1NO - 1NC 1NO - 1NC	52BP7NRU 52BP7NSU 52BP7NTU	52BP7N2U 52BP7N3U 52BP7N9U		1
		24 V AC/DC 1 3/4" (44.5 mm) mushroom head with 52AADN, 24 V 757 type lamp or option: B = 52AED*, 24 V Single LED ^④	less operating head red green amber	1NO - 1NC 1NO - 1NC 1NO - 1NC	52BP7DZU 52BP7DRU 52BP7DSU 52BP7DTU	52BP7DZU 52BP7D2U 52BP7D3U 52BP7D9U		1
	3 Position Push Pull, Push Maintained, Pull Momentary Illuminated, Transformer^① (Pull to start, push to stop) ^②	120 V AC 1 3/4" (44.5 mm) mushroom head with 52AABN, 6 V 755 type lamp or option: B = 52AEB*, 6 V Single LED ^④	less operating head red green amber	1NO - 1NC 1NO - 1NC 1NO - 1NC	52BP7GZU 52BP7GRU 52BP7GSU 52BP7GTU	52BP7GZU 52BP7G2U 52BP7G3U 52BP7G9U		1
		240 V AC 1 3/4" (44.5 mm) mushroom head with 52AABN, 6 V 755 type lamp or option: B = 52AEB*, 6 V Single LED ^④	less operating head red green amber	1NO - 1NC 1NO - 1NC 1NO - 1NC	52BP7HZU 52BP7HRU 52BP7HSU 52BP7HTU	52BP7HZU 52BP7H2U 52BP7H3U 52BP7H9U		1
		480 V AC 1 3/4" (44.5 mm) mushroom head with 52AABN, 6 V 755 type lamp or option: B = 52AEB*, 6 V Single LED ^④	less operating head red green amber	1NO - 1NC 1NO - 1NC 1NO - 1NC	52BP7JZU 52BP7JRU 52BP7JSU 52BP7JTU	52BP7JZU 52BP7J2U 52BP7J3U 52BP7J9U		1
		600V AC 1 3/4" (44.5 mm) mushroom head with 52AABN, 6 V 755 type lamp or option: B = 52AEB*, 6 V Single LED ^④	less operating head red green amber	1NO - 1NC 1NO - 1NC 1NO - 1NC	52BP7KZU 52BP7KRU 52BP7KSU 52BP7KTU	52BP7KZU 52BP7K2U 52BP7K3U 52BP7K9U		1

Color options^③: blue
clear
white

5
A
B

Technical Specifications
on page 10/169A

① LED option available. For single LED only, append **B** to the end of the order number. Single LEDs available for all colors. LED color and lens color must match. LED option is not available on units sold "less operating head". Example: Single LED: 52BP7JTUB

② Blocks cannot be interchanged (start-stop circuit).

③ To order a color option, replace the 7th digit of the order number.

④ Replace asterisk (*) in LED part number with color option that matches lens. See replacement lamps on page 10/161, for complete catalog number.

⑤ Full Voltage modules are available with additional voltage ratings from the factory. For Incandescent lamps change the 6th Character to **B**=6V, **C**=12V, or **E**=120V (Example: Order 52BP7B2U for 6V Incandescent Lamp). For LED options change the 6th Character to **B**=6V AC, or **E**=120V AC (Example: Order 52BP7B2UB for 6V AC LED Lamp option).



Pushbutton Units and Indicator Lights

30 mm Black Max Corrosion Resistant, Class 52

• Revised •
03/20/2012

Twist-to-release complete units

Selection and ordering data

Version	Color of actuator	Contact blocks	Order no.	List Price	Pack	
			Plastic Head	\$	Unit	
2 Position twist-to-release non-illuminated 	2 Position Push Maintained, Twist-To-Release^③ Non-Illuminated					
	1 3/4" (44.5 mm) mushroom head	less operating head	1NO - 1NC	52BR8WZA	1	
		red	1NO - 1NC	52BR8W2A		
		green	1NO - 1NC	52BR8W3A		
		yellow	52BR8W4A			
2 Position twist-to-release illuminated 	2 Position Push Maintained, Twist-To-Release^③ Illuminated, Integrated LED Module					
	24 V AC/DC 1 3/4" (44.5 mm) mushroom head	red	1NO - 1NC	52BR8LRA	1	
		green	1NO - 1NC	52BR8LSA		
		amber	1NO - 1NC	52BR8LTA		
	120 V AC 1 3/4" (44.5 mm) mushroom head	red	1NO - 1NC	52BR8MRA	1	
		green	1NO - 1NC	52BR8MSA		
		amber	1NO - 1NC	52BR8MTA		
	240 V AC 1 3/4" (44.5 mm) mushroom head	red	1NO - 1NC	52BR8NRA	1	
		green	1NO - 1NC	52BR8NSA		
		amber	1NO - 1NC	52BR8NTA		
	2 Position Push Maintained, Twist-To-Release^③ Illuminated, Full Voltage^④					
	24 V AC/DC 1 3/4" (44.5 mm) mushroom head with 52AADN, 24 V 757 type lamp or option: B = 52AED*, 24 V Single LED ^②	less operating head	1NO - 1NC	52BR8DZA	1	
		red	1NO - 1NC	52BR8DRA		
		green	1NO - 1NC	52BR8DSA		
		amber	1NO - 1NC	52BR8DTA		
	2 Position Push Maintained, Twist-To-Release^③ Illuminated, Transformer^①					
	120 V AC 1 3/4" (44.5 mm) mushroom head with 52AABN, 6 V 755 type lamp or option: B = 52AEB*, 6 V Single LED ^②	less operating head	1NO - 1NC	52BR8GZA	1	
		red	1NO - 1NC	52BR8GRA		
		green	1NO - 1NC	52BR8GSA		
		amber	1NO - 1NC	52BR8GTA		
240 V AC 1 3/4" (44.5 mm) mushroom head with 52AABN, 6 V 755 type lamp or option: B = 52AEB*, 6 V Single LED ^②	less operating head	1NO - 1NC	52BR8HZA	1		
	red	1NO - 1NC	52BR8HRA			
	green	1NO - 1NC	52BR8HSA			
	amber	1NO - 1NC	52BR8HTA			
480 V AC 1 3/4" (44.5 mm) mushroom head with 52AABN, 6 V 755 type lamp or option: B = 52AEB*, 6 V Single LED ^②	less operating head	1NO - 1NC	52BR8JZA	1		
	red	1NO - 1NC	52BR8JRA			
	green	1NO - 1NC	52BR8JSA			
	amber	1NO - 1NC	52BR8JTA			
600V AC 1 3/4" (44.5 mm) mushroom head with 52AABN, 6 V 755 type lamp or option: B = 52AEB*, 6 V Single LED ^②	less operating head	1NO - 1NC	52BR8KZA	1		
	red	1NO - 1NC	52BR8KRA			
	green	1NO - 1NC	52BR8KSA			
	amber	1NO - 1NC	52BR8KTA			

Technical Specifications
on page 10/169A

- ① **LED option available.** For single LED only, append B to the end of the order number. Single LEDs available for all colors. LED color and lens color must match. LED option is not available on units sold "less operating head". Example: Single LED: 52BR8GSAB
- ② Replace asterisk (*) in LED part number with color option that matches lens. See replacement lamps on page 10/161 for complete catalog number.

- ③ EMERGENCY-STOP control devices according to IEC 60947-5-5 when provided with red operating head and 52BJK contact blocks.
- ④ Full Voltage modules are available with additional voltage ratings from the factory. For Incandescent lamps change the 6th Character to **B**=6V, **C**=12V, or **E**=120V (Example: Order 52BR8BRA for 6V Incandescent Lamp). For LED options change the 6th Character to **B**=6V AC, or **E**=120V AC (Example: Order 52BR8BRAB for 6V AC LED Lamp option).

• Revised •
03/20/2012

Pushbutton Units and Indicator Lights

30 mm Black Max Corrosion Resistant, Class 52

Indicator lights

Selection and ordering data

	Version	Color of actuator	Contact blocks	Order no.	List Price	Order no.	List Price	Pack
				Plastic Lens	\$	Glass Lens	\$	
Pilot light	Indicator Light Integrated LED Module							
	24V AC/DC	red green amber		52BL4L2 52BL4L3 52BL4L9		52BL5L2 52BL5L3 52BL5L9		1
	120V AC	red green amber		52BL4M2 52BL4M3 52BL4M9		52BL5M2 52BL5M3 52BL5M9		1
	240V AC	red green amber		52BL4N2 52BL4N3 52BL4N9		52BL5N2 52BL5N3 52BL5N9		1
	Indicator Light Full Voltage^④							
	24V AC/DC with 52AADN, 24 V 757 type lamp or option: XB = 52AED*, 24 V Single LED ^③ XY = 52AED*7, 24 V Cluster LED ^③	less operating head red green amber		52BL4DN 52BL4D2 52BL4D3 52BL4D9		52BL5DN 52BL5D2 52BL5D3 52BL5D9		1
	120V AC/DC with 52AAENC1, 120 V 120MB type lamp or option: XB = 52AEE*, 120 V Single LED ^③ XY = 52AEE*7, 120 V Cluster LED ^③	less operating head red green amber		52BL4EN 52BL4E2 52BL4E3 52BL4E9		52BL5EN 52BL5E2 52BL5E3 52BL5E9		1
	Indicator Light Transformer^①							
	120V AC with 52AABN, 6 V 755 type lamp or option: XB = 52AEB*, 6 V Single LED ^③ XY = 52AEB*7, 6 V Cluster LED ^③	less operating head red green amber		52BL4GN 52BL4G2 52BL4G3 52BL4G9		52BL5GN 52BL5G2 52BL5G3 52BL5G9		1
	240V AC with 52AABN, 6 V 755 type lamp or option: XB = 52AEB*, 6 V Single LED ^③ XY = 52AEB*7, 6 V Cluster LED ^③	less operating head red green amber		52BL4HN 52BL4H2 52BL4H3 52BL4H9		52BL5HN 52BL5H2 52BL5H3 52BL5H9		1
	480V AC with 52AABN, 6 V 755 type lamp or option: XB = 52AEB*, 6 V Single LED ^③ XY = 52AEB*7, 6 V Cluster LED ^③	less operating head red green amber		52BL4JN 52BL4J2 52BL4J3 52BL4J9		52BL5JN 52BL5J2 52BL5J3 52BL5J9		1
	600V AC with 52AABN, 6 V 755 type lamp or option: XB = 52AEB*, 6 V Single LED ^③ XY = 52AEB*7, 6 V Cluster LED ^③	less operating head red green amber		52BL4KN 52BL4K2 52BL4K3 52BL4K9		52BL5KN 52BL5K2 52BL5K3 52BL5K9		1

Technical Specifications on page 10/169A

Color code table^②: blue
clear
white

5
A
B

5
A
B

① **LED option available.** For single LED, append **XB** to the end of the order number. For a cluster LED, append **XY** to the end of the order number. Single LEDs available for all colors, while cluster LEDs are available for red, green and amber only. LED color and lens color must match. LED option is not available on units sold "less operating head".
Example: Single LED: 52BL5G3**XB** Cluster LED: 52BL5G3**XY**

② To order a color option, replace the 7th digit of the order number.

③ Replace asterisk (*) in LED part number with color option that matches lens. See replacement lamps on page 10/161, for complete catalog number.

④ Full Voltage modules are available with additional voltage ratings from the factory. For Incandescent lamps change the 6th Character to **B**=6V, or **C**=12V (Example: Order 52BL4**B**2 for 6V Incandescent Lamp). For LED options change the 6th Character to **B**=6V AC (Example: Order 52BL4**B**2XB for 6V AC LED Lamp option).

Pushbutton Units and Indicator Lights

30 mm Black Max Corrosion Resistant, Class 52

• Revised •
03/20/2012

Indicator light operators

Selection and ordering data

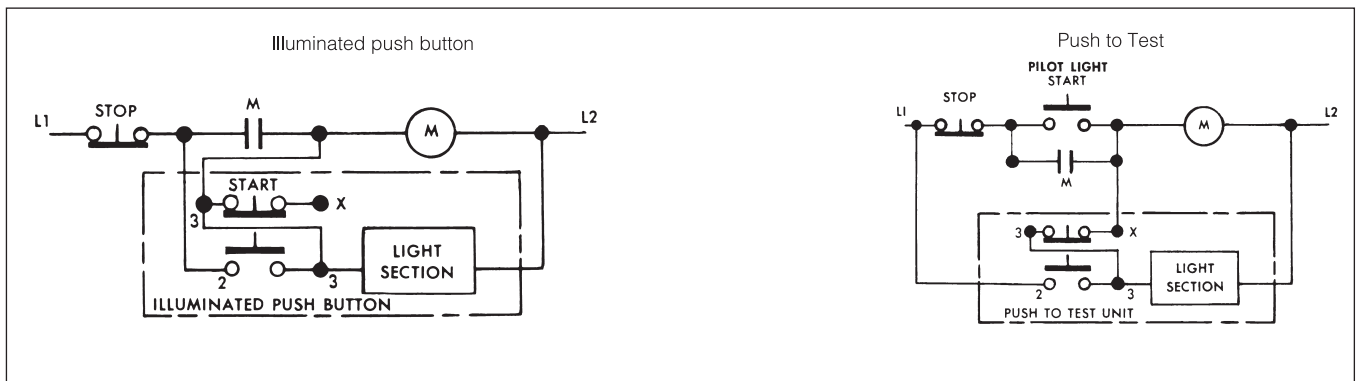
Version	Color of actuator	Contact blocks	Order no.	List Price	Order no.	List Price	Pack	
			Operators with Incandescent lamp	\$	Operators with LED lamp^③	\$	Unit	
Pilot light	Indicator light with plastic lens - Resistor type AC^{①②}							
	240 V, 52PY4N with 52AAENC1, 120 V 120MB type lamp or 240 V, 52PX4N option Y with 52AEB*7, 6 V LED ^③	red green amber less lens	52PY4N2 52PY4N3 52PY4N9 52PY4NN		52PX4N2Y 52PX4N3Y 52PX4N9Y —		1	
	Illuminated pushbutton/Push to test indicator indicator light with plastic lens plastic lens – Resistor type AC^④							
	120V with 24V 757 type lamp, or 24V LED	red	1NC + 1NO	52PX6M2A		52PX6M2AY		1
		green	1NC + 1NO	52PX6M3A		52PX6M3AY		
		amber	1NC + 1NO	52PX6M9A		52PX6M9AY		
		less lens	1NC + 1NO	52PX6MNA		—		
	240V with 24V 757 type lamp, or 24V LED	red	1NC + 1NO	52PX6N2A		52PX6N2AY		1
green amber less lens		1NC + 1NO 1NC + 1NO 1NC + 1NO	52PX6N3A 52PX6N9A 52PX6NNA		52PX6N3AY 52PX6N9AY —			

Color code table^②: blue
clear
white

↑
5
A
B

↑
5
A
B

Wiring Diagrams



Technical Specifications on page 10/169A

- ① All illuminated devices come with std. Touch-safe shield per UL standards except where noted (Resistor Type Pilot Devices are not touch safe).
- ② For factory installed glass lens, replace the 5th character with "5".
- ③ LED color and lens color must match. LED option is not available on units sold "less operating head". Resistor Type Pilot Devices with Standard Incandescent lamps are provided with different value resistors than pilot devices ordered using the LED option. LED lamps can only be installed in pilot lights that are ordered from the factory utilizing the LED option suffix.

- ④ For factory installed lens guard, add suffix "V".
- ⑤ Replace asterisk (*) in LED part number with color option that matches lens. See replacement lamps on page 10/161, for complete catalog number.

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1

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10


Pushbutton Units and Indicator Lights

30 mm, Black Max Corrosion Resistant, Class 52

• Revised •
03/20/2012

Push-to-test complete units

Selection and ordering data

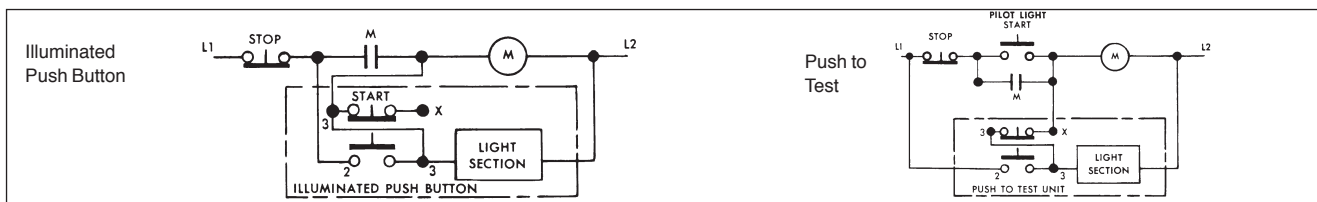
	Version	Color of actuator	Contact blocks	Order no.	List Price	Pack	
				Plastic Lens ^④	\$	Unit	
	Illuminated pushbutton / Push to test Integrated LED Module 24V AC/DC	red	1NO - 1NC	52BT6L2A		1	
		green	1NO - 1NC	52BT6L3A			
		amber	1NO - 1NC	52BT6L9A			
		120V AC	red	1NO - 1NC	52BT6M2A		1
			green	1NO - 1NC	52BT6M3A		
			amber	1NO - 1NC	52BT6M9A		
		240V AC	red	1NO - 1NC	52BT6N2A		1
			green	1NO - 1NC	52BT6N3A		
			amber	1NO - 1NC	52BT6N9A		
	Illuminated pushbutton / Push to test Full Voltage^{①③} 24V AC/DC with 52AADN, 24V 757 type lamp or option: B = 52AED*, 24V Single LED ^③	less operating head	1NO - 1NC	52BT6DNA		1	
		red	1NO - 1NC	52BT6D2A			
		green	1NO - 1NC	52BT6D3A			
		amber	1NO - 1NC	52BT6D9A			
		Illuminated pushbutton / Push to test Transformer^① 120V AC with 52AABN, 6 V 755 type lamp or option: B = 52AEB*, 6 V Single LED ^③	less operating head	1NO - 1NC	52BT6GNA		1
			red	1NO - 1NC	52BT6G2A		
			green	1NO - 1NC	52BT6G3A		
		amber	1NO - 1NC	52BT6G9A			
		240V AC with 52AABN, 6 V 755 type lamp or option: B = 52AEB*, 6 V Single LED ^③	less operating head	1NO - 1NC	52BT6HNA		1
	red		1NO - 1NC	52BT6H2A			
	green		1NO - 1NC	52BT6H3A			
	amber	1NO - 1NC	52BT6H9A				
	480V AC with 52AABN, 6 V 755 type lamp or option: B = 52AEB*, 6 V Single LED ^③	less operating head	1NO - 1NC	52BT6JNA		1	
		red	1NO - 1NC	52BT6J2A			
		green	1NO - 1NC	52BT6J3A			
amber	1NO - 1NC	52BT6J9A					
600V AC with 52AABN, 6 V 755 type lamp or option: B = 52AEB*, 6 V Single LED ^③	less operating head	1NO - 1NC	52BT6KNA		1		
	red	1NO - 1NC	52BT6K2A				
	green	1NO - 1NC	52BT6K3A				
amber	1NO - 1NC	52BT6K9A					

Technical Specifications on page 10/169A

Color code table^②:
blue
clear
white

5
A
B

Wiring Diagrams



- ① **LED option available.** For single LED only, append **B** to the end of the order number. Single LEDs available for all colors. LED color and lens color must match. LED option is not available on units sold "less operating head". Example: Single LED: 52BT6D3**AB** (Cluster LED option is not available for PTT Pilot Lights.)
- ② To order a color option, replace the 7th digit of the order number.
- ③ Replace asterisk (*) in LED part number with color option that matches lens. See replacement lamps on page 10/161, for complete catalog number.

- ④ 52AXGL BlackMax Lens Guard is available for Push-to-test/Illuminated Pushbuttons and Indicator Lights.
- ⑤ Full Voltage modules are available with additional voltage ratings from the factory. For Incandescent lamps change the 6th Character to **B**=6V, **C**=12V, or **E**=120V (Example: Order 52BT6**B**2A for 6V Incandescent Lamp). For LED options change the 6th Character to **B**=6V AC, or **E**=120V AC (Example: Order 52BT6**B**2AB for 6V AC LED Lamp option).



• Revised •
03/20/2012

Pushbutton Units and Indicator Lights

30mm, Black Max Corrosion Resistant, Class 52

Selector switch complete units

Selection and ordering data

Version	Lever type	Contact blocks	Cam [Ⓞ]	Order no.	List Price	Pack	
					\$	unit	
Selector Switches with 2 switching positions							
Short lever assembled selector switch 	Maintained operation	Short lever, non-Illuminated	1 NO	A	52SX2AABK1	1	
		Short lever, non-Illuminated	1 NC	A	52SX2AABJ1		
		Short lever, non-Illuminated	1 NO + 1 NC	A	52SX2AABA1		
	Long lever assembled selector switch 	Spring return from right operation	Long lever, non-Illuminated	1 NO	A	52SW2AABK1	1
			Long lever, non-Illuminated	1 NC	A	52SW2AABJ1	
			Long lever, non-Illuminated	1 NO + 1 NC	A	52SW2AABA1	
	Spring return from right operation	Short lever, non-Illuminated	1 NO	A	52SX2ACBK1	1	
		Short lever, non-Illuminated	1 NC	A	52SX2ACBJ1		
		Short lever, non-Illuminated	1 NO + 1 NC	A	52SX2ACBA1		
		Spring return from right operation	Long lever, non-Illuminated	1 NO	A	52SW2ACBK1	1
			Long lever, non-Illuminated	1 NC	A	52SW2ACBJ1	
			Long lever, non-Illuminated	1 NO + 1 NC	A	52SW2ACBA1	
Selector Switches with 3 switching positions							
	Maintained operation	Short lever, non-Illuminated	1 NO + 1 NC	C	52SX2CABA1	1	
		Short lever, non-Illuminated	2 NC + 1 NO	G	52SX2GABJ2K1		
		Short lever, non-Illuminated	2 NO + 2 NC	C	52SX2CABA2		
		Long lever, non-Illuminated	1 NO + 1 NC	C	52SW2CABA1	1	
		Long lever, non-Illuminated	2 NC + 1 NO	G	52SW2GABJ2K1		
		Long lever, non-Illuminated	2 NO + 2 NC	C	52SW2CABA2		
	Spring return from right	Spring return from right	Short lever, non-Illuminated	1 NO + 1 NC	C	52SX2CCBA1	1
			Short lever, non-Illuminated	2 NC + 1 NO	G	52SX2GCBJ2K1	
			Short lever, non-Illuminated	2 NO + 2 NC	C	52SX2CCBA2	
		Spring return from right	Long lever, non-Illuminated	1 NO + 1 NC	C	52SW2CCBA1	1
			Long lever, non-Illuminated	2 NC + 1 NO	G	52SW2GCBJ2K1	
			Long lever, non-Illuminated	2 NO + 2 NC	C	52SW2CCBA2	
Spring return from left	Spring return from left	Short lever, non-Illuminated	1 NO + 1 NC	C	52SX2CBBA1	1	
		Short lever, non-Illuminated	2 NC + 1 NO	G	52SX2GBBJ2K1		
		Short lever, non-Illuminated	2 NO + 2 NC	C	52SX2CBBA2		
		Spring return from left	Long lever, non-Illuminated	1 NO + 1 NC	C	52SW2CBBA1	1
			Long lever, non-Illuminated	2 NC + 1 NO	G	52SW2GBBJ2K1	
			Long lever, non-Illuminated	2 NO + 2 NC	C	52SW2CBBA2	
Spring return from right & left operation	Spring return from right & left operation	Short lever, non-Illuminated	1 NO + 1 NC	C	52SX2CDBA1	1	
		Short lever, non-Illuminated	2 NC + 1 NO	G	52SX2GDBJ2K1		
		Short lever, non-Illuminated	2 NO + 2 NC	C	52SX2CDBA2		
		Spring return from right & left operation	Long lever, non-Illuminated	1 NO + 1 NC	C	52SW2CDBA1	1
			Long lever, non-Illuminated	2 NC + 1 NO	G	52SW2GDBJ2K1	
			Long lever, non-Illuminated	2 NO + 2 NC	C	52SW2CDBA2	

Technical Specifications
on page 10/169A

Ⓞ For contact operation, see cam selection table on page 10/156.




Pushbutton Units and Indicator Lights

30 mm, Black Max Corrosion Resistant, Class 52

• Revised •
03/20/2012

Pushbutton and push-pull operators

Selection and ordering data

Version	Color of actuator	Order no.	List Price	Pack
			\$	Unit
Flush pushbutton operator	Pushbutton with flush cap	black red green yellow blue gray orange less cap kit - with all colors	52PX8A1 52PX8A2 52PX8A3 52PX8A4 52PX8A5 52PX8A6 52PX8A8 52PX8 52PX8AN	1
				
Extended pushbutton operator	Pushbutton with extended cap	black red green yellow blue gray orange less cap kit - with all colors	52PX8B1 52PX8B2 52PX8B3 52PX8B4 52PX8B5 52PX8B6 52PX8B8 52PX8 52PX8BN	1
				
Mushroom head pushbutton	Pushbutton with mushroom cap	black red green yellow blue gray orange less cap kit - with all colors	52PX9D1 52PX9D2 52PX9D3 52PX9D4 52PX9D5 52PX9D6 52PX9D8 52PX9 52PX9DN	1
				
	1 5/8" (41.3mm), set screw			
	2 1/2" (63.5mm), set screw	black red green yellow blue gray orange less cap kit - with all colors	52PX9E1 52PX9E2 52PX9E3 52PX9E4 52PX9E5 52PX9E6 52PX9E8 52PX9 52PX9EN	1
	2 position push pull maintained, non illuminated			
	Small Plastic Mushroom Head, 1 3/4" (44.5mm) threaded on	black red green yellow blue gray orange	52BP2W1 52BP2W2 52BP2W3 52BP2W4 52BP2W5 52BP2W6 52BP2W8	1
	Large Plastic Mushroom Head, 2 1/2" (63.5mm) threaded on	black red green yellow blue gray orange	52BP2V1 52BP2V2 52BP2V3 52BP2V4 52BP2V5 52BP2V6 52BP2V8	1
	2 position twist to release maintained, non illuminated			
	Small Plastic Mushroom Head, 1 3/4" (44.5mm) threaded on	red green yellow	52BR8W2 52BR8W3 52BR8W4	1

Technical Specifications
on page 10/169A

Selection and ordering data



Version	Lever type	Color of lever insert	Cam ^①	Order no.	List Price	Pack
					\$	unit
Selector Switches with 2 switching positions						
Maintained operation	Short lever, non-Illuminated	white	A	52SX2AAB		1
	Long lever, non-Illuminated	white	A	52SW2AAB		
Spring return from right operation	Short lever, non-Illuminated	white	A	52SX2ACB		1
	Long lever, non-Illuminated	white	A	52SW2ACB		
Selector Switches with 3 switching positions						
Maintained operation	Short lever, non-Illuminated	white	B	52SX2BAB		1
	Long lever, non-Illuminated	white	B	52SW2BAB		
	Short lever, non-Illuminated	white	C	52SX2CAB		
	Long lever, non-Illuminated	white	C	52SW2CAB		
	Short lever, non-Illuminated	white	D	52SX2DAB		
	Long lever, non-Illuminated	white	D	52SW2DAB		
	Short lever, non-Illuminated	white	E	52SX2EAB		
	Long lever, non-Illuminated	white	E	52SW2EAB		
	Short lever, non-Illuminated	white	G	52SX2GAB		
Long lever, non-Illuminated	white	G	52SW2GAB			
Spring return from right operation	Short lever, non-Illuminated	white	B	52SX2BCB		1
	Long lever, non-Illuminated	white	B	52SW2BCB		
	Short lever, non-Illuminated	white	C ^②	52SX2CCB		
	Long lever, non-Illuminated	white	C ^②	52SW2CCB		
	Short lever, non-Illuminated	white	D	52SX2DCB		
	Long lever, non-Illuminated	white	D	52SW2DCB		
	Short lever, non-Illuminated	white	E	52SX2ECB		
	Long lever, non-Illuminated	white	E	52SW2ECB		
	Short lever, non-Illuminated	white	G	52SX2GCB		
Long lever, non-Illuminated	white	G	52SW2GCB			
Spring return from left operation	Short lever, non-Illuminated	white	B	52SX2BBB		1
	Long lever, non-Illuminated	white	B	52SW2BBB		
	Short lever, non-Illuminated	white	C ^②	52SX2CBB		
	Long lever, non-Illuminated	white	C ^②	52SW2CBB		
	Short lever, non-Illuminated	white	D	52SX2DBB		
	Long lever, non-Illuminated	white	D	52SW2DBB		
	Short lever, non-Illuminated	white	E	52SX2EBB		
	Long lever, non-Illuminated	white	E	52SW2EBB		
	Short lever, non-Illuminated	white	G	52SX2GBB		
Long lever, non-Illuminated	white	G	52SW2GBB			
Spring return from left and right operation	Short lever, non-Illuminated	white	B	52SX2BDB		1
	Long lever, non-Illuminated	white	B	52SW2BDB		
	Short lever, non-Illuminated	white	C ^②	52SX2CDB		
	Long lever, non-Illuminated	white	C ^②	52SW2CDB		
	Short lever, non-Illuminated	white	D	52SX2DDB		
	Long lever, non-Illuminated	white	D	52SW2DDB		
	Short lever, non-Illuminated	white	E	52SX2EDB		
	Long lever, non-Illuminated	white	E	52SW2EDB		
	Short lever, non-Illuminated	white	G	52SX2GDB		
Long lever, non-Illuminated	white	G	52SW2GDB			
Selector Switches with 4 switching positions						
Maintained operation	Non-Illuminated, Short lever	white	B	52SX2HAB		1
	Non-Illuminated, Long lever	white	B	52SW2HAB		

Technical Specifications
on page 10/169A

① For contact operation, see cam selection table on page 10/156.

② C- Cam on spring return selectors is limited to 4 contact blocks, 1 or 2 pole.

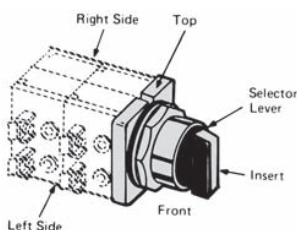
Pushbutton Units and Indicator Lights

30 mm Heavy Duty, Watertight/Oiltight, Class 52

• Revised •
03/20/2012

Cam selection

Selection and ordering data



Technical Specifications
on page 10/169A

Ordering Information

- Contact blocks are ordered separately, see page 10/156.
- Determine which table to use based upon the type of selector (non-illum selector switch-top, illum selector switch-middle, and selector pushbutton-bottom).
- Find the correct number of selector positions (2, 3 or 4 positions).
- Select the contact operation required for each selector position. X indicates the contacts are closed, while O indicates the contacts are open. (For the selector pushbutton, N=normal and D=depressed). Contact block must be assembled in position shown for each circuit application.
- Identify the Cam letter required for the chosen contact operation (only 1 CAM can be used per selector switch or selector pushbutton).
- Contact blocks must be assembled in the position shown for each circuit application. The mounting position is viewed from the front of the device.

Ordering Cams D, E or G

- Cam D, E or G may be ordered at the same price by changing the 6th character of the selector catalog number. Example: Selector with D cam **52SX2DAB**.

Size Requirements

- C Cam on spring return selectors is limited to 4 contact blocks.
- Selector operators in enclosures are limited to depth of 1 contact block. (2 blocks wide).

Non-illuminated and keyed selector switches (viewed from front)

2 Selector Positions				Contact Blocks	CAM	Mounting	
Left		Right	Left			Right	
X		O		NC (52BAJ)	A	L	or R
O		X		NO (52BAK)	A	L	or R
3 Selector Positions			Contact Blocks	CAM	Mounting		
Left	Center	Right			Left	Right	
X	O	O		NO (52BAK)	B		R
O	O	X		NO (52BAK)	B	L	
X	X	O		NC (52BAJ)	B	L	
O	X	X		NC (52BAJ)	B		R
X	O	X		2NO (2-52BAK)	B	L	and R
X	O	O		NC (52BAJ)	C	L	or R
O	O	X		NO (52BAK)	C	L	or R
O	X	O		NC (52BAJ)	D	L	or R
O	O	X		NO (52BAK)	D	L	or R
X	O	O		NO (52BAK)	E	L	or R
O	X	O		NC (52BAJ)	E	L	or R
X	O	O		NC (52BAJ)	G	L	
O	X	O		NC (52BAJ)	G		R
O	O	X		NO (52BAK)	G	L	or R
4 Selector Positions				Contact Blocks	CAM	Mounting	
Left	Left Center	Right Center	Right			Left	Right
X	O	O	O	NO (52BAK)	H		R
O	X	O	O	NC (52BAJ)	H	L	
O	O	X	O	NC (52BAJ)	H		R
O	O	O	X	NO (52BAK)	H	L	

Illuminated selector switches (viewed from front)

2 Selector Positions			Contact Blocks	CAM	Mounting		
Left		Right			Left	Right	
X		O		NC (52BAJ)	A	L	
O		X		NO (52BAK)	A	L	
3 Selector Positions			Contact Blocks	CAM	Mounting		
Left	Center	Right			Left	Right	
O	O	X		NC (52BAJ)	B		R
O	X	O		NO (52BAK)	B		R
X	O	O		NC (52BAJ)	C	L	
O	O	X		NO (52BAK)	C	L	

Selector Pushbuttons (viewed from front)

2 Selector Positions						Contact Blocks	CAM	Mounting	
Left			Right					Left	Right
N	D		N	D					
X	O		O	O		NC (52BAJ)	Q		R
X	X		O	O		NC (52BAJ)	Q	L	
O	X		O	X		NO (52BAK)	Q		R
O	O		O	X		NO (52BAK)	Q	L	
X	O		O	O		NC (52BAJ)	P	L	or R
O	X		X	X		NO (52BAK)	P	L	or R
X	X		X	O		NC (52BAJ)	R	L	
X	O		X	X		NC (52BAJ)	R		R
O	X		O	O		NC (52BAJ)	R		R
O	O		O	X		NO (52BAK)	R	L	
3 Selector Positions						Contact Blocks	CAM	Mounting	
Left		Center	Right					Left	Right
N	D	N	D	N	D				
X	O	O	O	O	O	NC (52BAJ)	S	L	
X	O	X	X	O	O	NC (52BAJ)	S		R
O	X	O	O	O	X	NO (52BAK)	S		R
O	O	O	X	O	X	NO (52BAK)	S	L	

Selection and ordering data

Assembled Non-illuminated Selector Switches

- Determine contact block and location from above.
- Select block suffix. Ex: **J = 52BAJ**.
- Now select position suffix.
- **1-52BAJ** block mounted on right side, suffix will be **J 1**.
- Additional suffixes allow for multiple quantities and locations.
- Repeat process for next block if required.
- Add list price of blocks to operator list price.
- Consult factory for delivery.

Example 1: X O O
 O O X
HAND-OFF-AUTO Maintained Switch
Catalog No **52SA2CAB A 1 = 52A2CABA1**
(**52BJK** block mounted on right side)

Example 2: X O O **52BAJ (L)**
 O X O **52BAJ (R)**
 O O X **52BAK (L or R) }K1**
G Cam required
Catalog No **52SA2GAB J2 K1 = 52SA2GABJ2K1**

Block Suffix
A = 1 NO - 1 NC, **52BJK**
E = NC Late Break, **52BAE**
H = NO Early Make, **52BAH**
J = NC, **52BAJ**
K = NO, **52BAK**

Suffix	Quantity and Location	
	Left	Right
0	1	—
1	—	1
2	1	1
3	2	—
4	—	2
5	2	1
6	1	2
7	2	2
8	3	—
9	—	3

Technical Specifications
on page 10/169A



Pushbutton Units and Indicator Lights

30 mm Heavy Duty, Watertight/Oiltight, Class 52

• Revised •
03/20/2012

Accessories and spare parts

Selection and ordering data

	Version	Suitable for	Color	Order no.	List Price \$
	Flush actuator lens cap	For flush type, non-illuminated pushbuttons bag of 20 caps	black red green yellow blue gray orange kit- all colors	52RA1A1 52RA1A2 52RA1A3 52RA1A4 52RA1A5 52RA1A6 52RA1A8 52RA1AN	
	Extended actuator lens cap	For extended type, non-illuminated pushbuttons bag of 20 caps	black red green yellow blue gray orange 1 of each color cap	52RA1B1 52RA1B2 52RA1B3 52RA1B4 52RA1B5 52RA1B6 52RA1B8 52RA1BN	
	Mushroom head cap - Plastic	For large 2 1/2"(63.5mm) type, set screw non-illuminated mushroom pushbuttons For small 1 5/8"(41.3mm) type, non-illuminated mushroom pushbuttons	black red green yellow blue gray orange 1 kit of each color cap black red green yellow blue gray orange 1 of each color cap	52RB3E1 52RB3E2 52RB3E3 52RB3E4 52RB3E5 52RB3E6 52RB3E8 52RB3EN 52RB3D1 52RB3D2 52RB3D3 52RB3D4 52RB3D5 52RB3D6 52RB3D8 52RB3DN	
	Mushroom head cap - Metal	For small 1 5/8"(41.3mm) type, set screw non-illuminated mushroom pushbuttons	chrome red green	52RB3FC 52RB3F2 52RB3F3	
	Replacement Lens for Indicator Lights	For catalog numbers starting with 52PL or 52BL ^{①②} Plastic Glass	red green blue amber clear white 1 of each color red green blue amber clear white 1 of each color	52RA4S2 52RA4S3 52RA4S5 52RA4S9 52RA4SA 52RA4SB 52RA4SN 52RA4T2 52RA4T3 52RA4T5 52RA4T9 52RA4TA 52RA4TB 52RA4TN	
	Replacement Lens for Push to Test/Illuminated Pushbuttons	For catalog numbers starting with 52PT or 52BT ^③ Plastic	red green blue amber clear white	52RA5S2 52RA5S3 52RA5S5 52RA5S9 52RA5SA 52RA5SB	

① To order replacement lens for indicator lights starting with 52PA, 52PE, or 52PX, change the 6th digit to P for plastic and G for glass.

② It is possible to retrofit catalog numbers starting with 52PA, 52PE and 52PX with the replacement lens. The new lens have concentric ribs for improved light distribution.

③ To order replacement lens for push to test / illuminated pushbuttons starting with 52PA, 52PE, or 52PX, change the 6th digit to a P.

• Revised •
03/20/2012



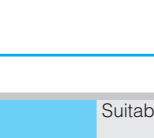
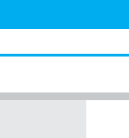


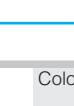
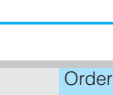
Pushbutton Units and Indicator Lights

30 mm Heavy Duty, Watertight/Oiltight, Class 52

Accessories and spare parts

1
2
3
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5
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10

Selection and ordering data

Version	Suitable for	Color	Order no.	List Price
				\$
	For small 1 3/4" type, push-pull units	red green amber	52RC3JR 52RC3JS 52RC3JT	
	For large 2 1/2" type, push-pull units	red green amber	52RC3KR 52RC3KS 52RC3KT	
	Chrome, for small 1 3/4" type, push-pull units	red green amber white	52RB3H2 52RB3H3 52RB3H9 52RB3HB	
	BlackMax, for small 1 3/4" type, push-pull units	red green amber white	52RX3H2 52RX3H3 52RX3H9 52RX3HB	
	For small 1 3/4" type, push-pull units (catalog numbers starting with 52PP or 52BP) ^①	black red green yellow blue gray orange 1 of each color	52RC3D1 52RC3D2 52RC3D3 52RC3D4 52RC3D5 52RC3D6 52RC3D8 52RC3DN	
	For large 2 1/2" type, push-pull units (catalog numbers starting with 52PP or 52BP) ^①	black red green yellow blue gray orange 1 of each color	52RC3E1 52RC3E2 52RC3E3 52RC3E4 52RC3E5 52RC3E6 52RC3E8 52RC3EN	
	For small 1 3/4" type, push-pull units (catalog numbers starting with 52PP or 52BP) ^①	red green chrome	52RC3F2 52RC3F3 52RC3FC	
	For small twist to release units	red green amber	52RC3RR 52RC3RS 52RC3RT	
	For small twist to release units	red green yellow	52RC3R2 52RC3R3 52RC3R4	
		red green blue amber clear white	52RA6P2 52RA6P3 52RA6P5 52RA6P9 52RA6PA 52RA6PB	
	Lever inserts Short lever	red green yellow blue gray orange white	52RA2A2 52RA2A3 52RA2A4 52RA2A5 52RA2A6 52RA2A8 52RA2AB	
	Long lever	red green yellow blue gray orange white	52RA2B2 52RA2B3 52RA2B4 52RA2B5 52RA2B6 52RA2B8 52RA2BB	

① For push-pull units whose catalog numbers that start with 52PX, 52PA or 52PE, replacement heads are available. Order from the 52RB type "Mushroom head pushbutton cap" section on page 10/158.









Pushbutton Units and Indicator Lights

30 mm Heavy Duty, Watertight/Oiltight, Class 52

• Revised •
03/20/2012

Accessories and spare parts

Selection and ordering data


Version	Suitable for	Color	Order no.	List Price	
				\$	
 Protective boot Offers protection from ice and foreign substances from interfering with button operation	Flush pushbutton operations	clear black	52AABA 52AAB1		
 Guards Prevents accidental operation	Non-illuminated basic pushbuttons	chrome blackmax	52AAGP 52AXGP		
	1 5/8" mushroom pushbuttons, 1 3/4" push-pull units ^① , and twist to release units	chrome blackmax	52AAGM 52AXGM		
	Push to test/illuminated pushbutton and indicator lights	chrome blackmax	52AAGL 52AXGL		
 EMERGENCY-STOP Lock Out EMERGENCY-STOP Backing Ring	Class 52 Illuminated Mushroom Head Pushbuttons; 304 Stainless Steel	chrome (304 SS)	52AALE		
	Yellow 90mm E-STOP Backing Ring		52AAR		
 Locknuts Replacement front ring	Non-illuminated basic pushbuttons	chrome blackmax	52AANP 52AXNP		
	Non-illuminated mushroom pushbuttons	chrome blackmax	52AANL 52AXNL		
	Push-pull and twist-to-release units (only for push-pull units starting with 52PP or 52BP) ^②	chrome blackmax	52CAMP 52CXNP		
	Indicator Lights	blue amber	52AANL 52AXNL		
	Selector switches	chrome blackmax	52AANS 52AXNS		
Mounting Accessories	Class 52 Trim Washer Kit (Set of 10 pcs)	chrome	52AAQ		
	Class 52 Washer Kit (Include 2-Neoprene Gaskets, 1-Trim Washer, 1-Index Locking Ring (chrome))		52AAD		
Padlock attachments	Non-illuminated basic pushbuttons	flush extended	52AALA 52AALB		
 Padlock cover Lock devices in off position	Pushbuttons, selector switches, and non-illuminated mushroom heads		52AALS		
 Lock nut wrench	All devices		52MAWB		
 Hole plugs		corrosion resistant steel, grey stainless steel	52AAH6 52ABH6 52ABHS		
	Spare keys (Kit includes 1 Key)	Class 52 Standard Keyed Selector Switch.	501CH	52KEY-501CH	
		Keyed Selector Switch ordered with Suffix X302.	506CH	52KEY-506CH	
Keyed Selector Switch ordered with Suffix X301.		547CH	52KEY-547CH		
Keyed Selector Switch ordered with Suffix X300.		548CH	52KEY-548CH		
Keyed Selector Switch ordered with Suffix X299.		549CH	52KEY-549CH		
Keyed Selector Switch ordered with Suffix X298.	550CH	52KEY-550CH			
Grounding kit	All devices		52AL109145		
 Touchsafe contact blocks with gold flashing	1 NO		52BAK		
	52 BAJ 1 NC		52BAJ ^④		
	1 NO - 1 NC		52BJK ^④		
	1 NO early make	closes before 52BAK	52BAH		
	52 BAK 1 NC late break	opens after 52 BAJ	52BAE		
1 NO - 1 NC	Reed switch; UL listed for class 1 division 2; .25A Max, 200V AC, 10 Watt max .5A Max, 200V DC, 10 Watt max		52BAR ^③		
52 BAR 1 NC extra late break			52BAU		

Technical Specifications
on page 10/169A

① These can also be used with the 1 5/8" push-pull devices.

② For push-pull units starting with part numbers 52PA, 52PE or 52PX, replacement locknuts can be ordered using 52AANL (Chrome) and 52AXNL (BlackMax).

③ Hermetically Sealed

④  Positive opening according to IEC 60947-5-1, Appendix K.

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03/20/2012


Pushbutton Units and Indicator Lights

30 mm Heavy Duty, Watertight/Oiltight, Class 52

Accessories and spare parts

1
2
3
4
5
6
7
8
9
10

Selection and ordering data

Version	Suitable for	Lamp voltage	Color	Order no.	List Price
					\$
Lamps with screw connection, miniature bayonet (BA 9s style)					
Incandescent lamps,					
	Flashing, type 267 lamp (replaces 755 lamp)	51, 52	6 V	52AABNF	
	6V type 755 lamp (Rated 150 mA)	51, 52	6 V	52AABN	
	12V type 756 (Rated 80 mA)	51, 52	12 V	52AACN	
	24V type 757 (Rated 80 mA)	51, 52	24 V	52AADN	
	48V, 2W	52	48 V	3SB1902-1AP	
	60V, 2W	52	60 V	3SR9424	
	120V, 2.5W, type #120MB (Rated 250 mA)	52	120 V	52AAENC1	
	Neon (uses resistors) type B2A (NE-51H)	52	120 V	52AAPN	
Candelabra , 120V, 3W, Full voltage type 3S6/5	52 older revision styles	120 V		52AAENC	
LED bulbs					
LED, BA9s type (Rated 15 mA)	Class 52	6 V AC 24 V AC/DC 120 V AC		52AEB□ 52AED□ 52AEE□	
LED, cluster type (Rated 0.5W)	Class 52	6 V AC 24 V AC 120 V AC 120 V DC		52AEB□7 52AED□7 52AEE□7 52AEV□7	
LED lighting module with integrated LED.					
Single LED (Rated 35 mA Maximum)	Class 52	24 V AC/DC 120 V AC 240 V AC		52AAIL□ 52AAIM□ 52AAIN□	
Full voltage lighting module accessory with BA9s type lamp					
Single LED	Class 52	6 V AC 24 V AC/DC 120 V AC		52AAFB□B 52AAFD□B 52AAFE□B	
Cluster LED	Class 52	6 V AC 24 V AC 120 V AC		52AAFB□Y 52AAFD□Y 52AAFE□Y	
Incandescent bulb	Class 52	6 V AC/DC 24 V AC/DC 120 V AC		52AAFB 52AAFD 52AAFE	
Transformer lighting module accessory with BA9s type lamp					
Single LED	Class 52	120 V AC 240 V AC 480 V AC 600 V AC		52AATG□B 52AATH□B 52AATJ□B 52AATK□B	
Cluster LED	Class 52	120 V AC 240 V AC 480 V AC 600 V AC		52AATG□Y 52AATH□Y 52AATJ□Y 52AATK□Y	
Incandescent bulb	Class 52	120 V AC 240 V AC 480 V AC 600 V AC		52AATG 52AATH 52AATJ 52AATK	

Technical Specifications
on page 10/169A

Color options: red **2**
green **3**
yellow/amber **4**
blue **5**
white/clear **B**

**Note: Cluster LED only available in red, green and yellow

Pushbutton Units and Indicator Lights

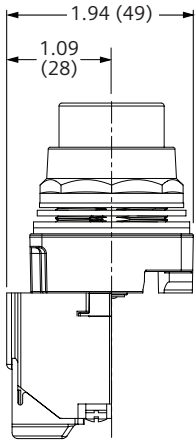
30 mm Heavy Duty, Watertight/Oiltight, Class 52

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03/20/2012

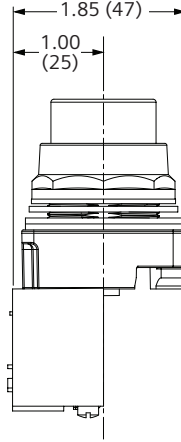
Dimensional drawings

Dimension drawings, inch (mm)

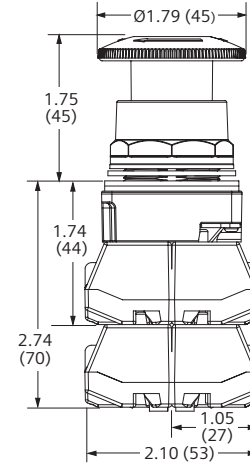
Pilot light - plastic lens
full voltage or transformer lighting module



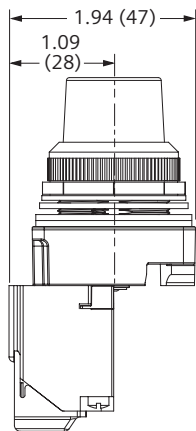
Pilot light - plastic lens
integrated LED module



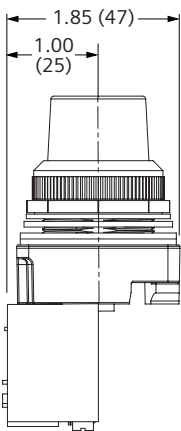
Twist to release
non-illuminated



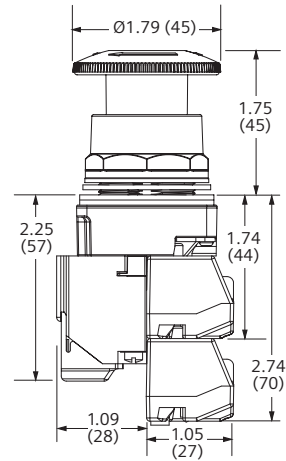
Pilot light - glass lens
full voltage or transformer lighting module



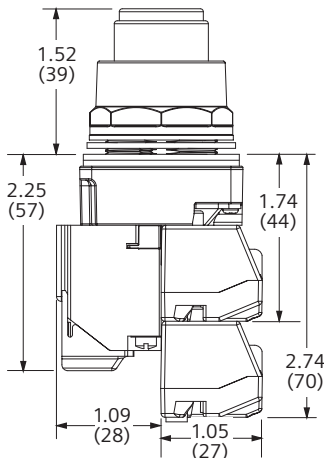
Pilot light - glass lens
integrated LED module



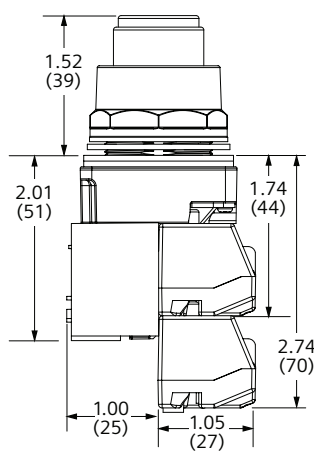
Twist to release
full voltage or transformer lighting module



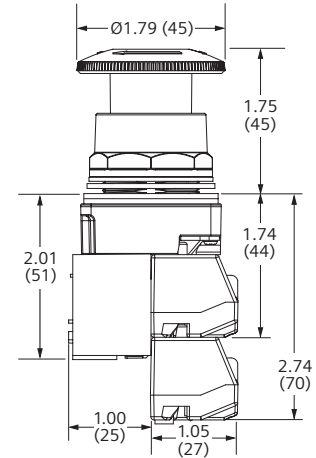
Push to test / illuminated pushbutton
full voltage or transformer lighting module



Push to test / illuminated pushbutton
integrated LED module

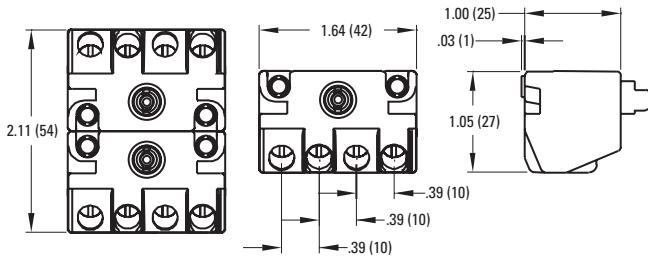


Twist to release
integrated LED module

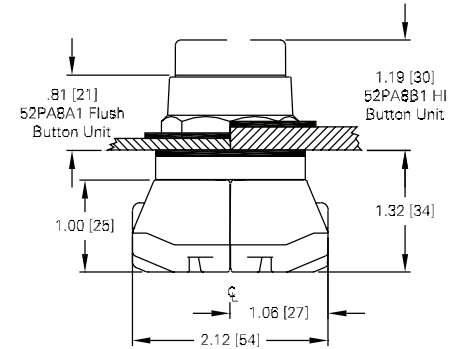


Dimension drawings, inch (mm)

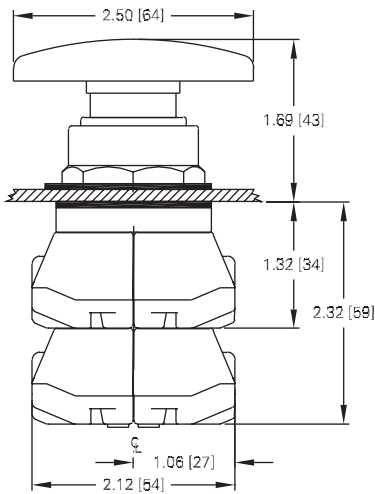
Contact block



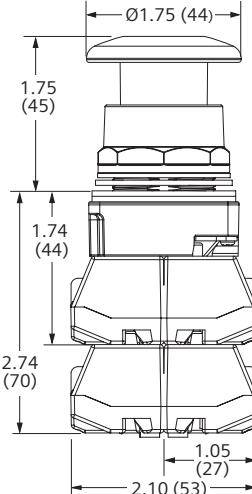
Non-illuminated momentary pushbutton flush, extended, styles with one contact block



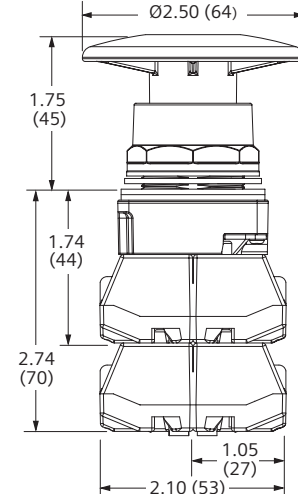
Large plastic mushroom head momentary pushbutton



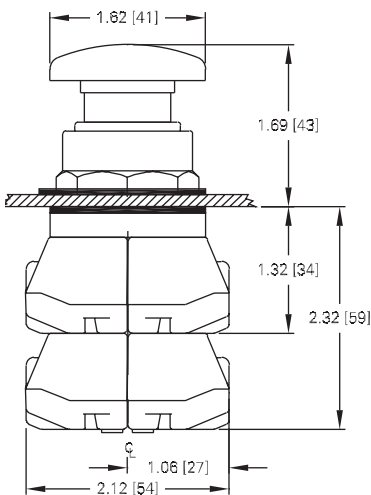
Small plastic mushroom head non-illuminated, push-pull unit



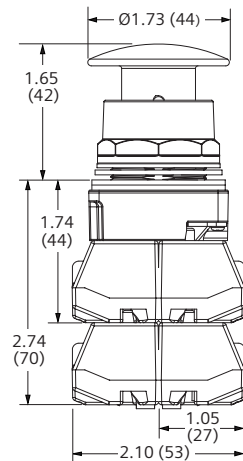
Large plastic mushroom head non-illuminated, push-pull unit



Small plastic mushroom head momentary pushbutton



Small metal mushroom head momentary pushbutton



Pushbutton Units and Indicator Lights

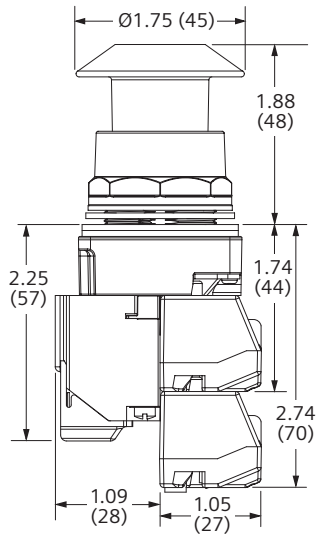
30 mm Heavy Duty, Watertight/Oiltight, Class 52

• Revised •
03/20/2012

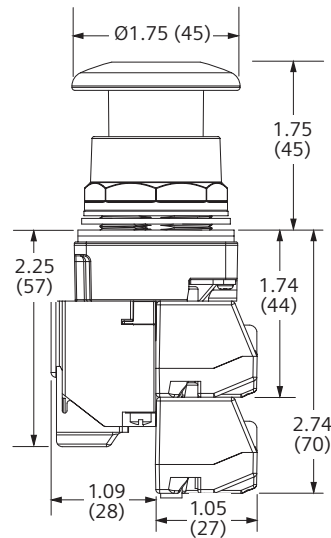
Dimensional drawings

Dimension drawings, inch (mm)

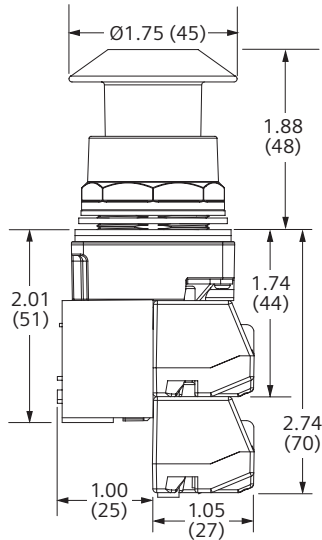
Push-pull unit - metal
full voltage or transformer lighting module



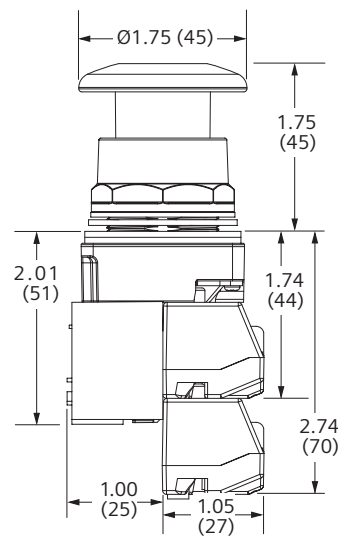
Push-pull unit - small plastic
full voltage or transformer lighting module



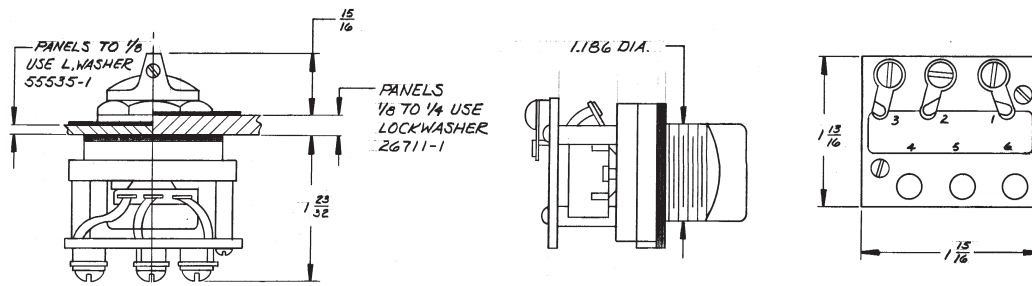
Push-pull unit - metal
integrated LED module



Push-pull unit - small plastic
integrated LED module



52MA3B** Potentiometer Operator





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03/20/2012

Pushbutton Units and Indicator Lights

30 mm Heavy Duty, Watertight/Oiltight, Class 52

Class 52 oiltight pushbutton stations

Selection and ordering data

	Actuator identification C = top device in station B = middle device in station A = bottom device in station	Degree of protection ^①	Contact / voltage	No. of command points	Order no.	List Price \$	Pack Unit
1 unit control station 	A = Momentary flush pushbutton black, label "START"	NEMA 12	1NO - 1NC	1	52C101A		
	A = Momentary raised pushbutton red, label "STOP"	NEMA 12	1NO - 1NC	1	52C103A		
	A = Momentary mushroom head red, label "STOP"	NEMA 12	1NO - 1NC	1	52C104A		
	A = Maintained metal mushroom head red, label "EMERGENCY STOP"	NEMA 12	1NO - 1NC	1	52C117A		
	A = 2 position selector switch "OFF-ON"	NEMA 12	1NO - 1NC	1	52C159A		
	A = 3 position selector switch "HAND-OFF-AUTO"	NEMA 12	1NO - 1NC	1	52C156A		
	A = Indicator light, red	NEMA 12	120V Transformer type	1	52C131A		
	A = Indicator light, green	NEMA 12	120V Transformer type	1	52C135A		
	A = Momentary flush pushbutton black, label "START"	NEMA 4X Stainless Steel	1NO - 1NC	1	52C101S		
	A = Momentary raised pushbutton red, label "STOP"	NEMA 4X Stainless Steel	1NO - 1NC	1	52C103S		
	A = Momentary mushroom head red, label "STOP"	NEMA 4X Stainless Steel	1NO - 1NC	1	52C104S		
	A = Maintained metal mushroom head red, label "EMERGENCY STOP"	NEMA 4X Stainless Steel	1NO - 1NC	1	52C116S		
	A = 2 position selector switch "OFF-ON"	NEMA 4X Stainless Steel	1NO - 1NC	1	52C159S		
	A = 3 position selector switch "HAND-OFF-AUTO"	NEMA 4X Stainless Steel	1NO - 1NC	1	52C156S		
	A = Momentary flush pushbutton black, label "START"	NEMA 4X Fiberglass	1NO - 1NC	1	52C101X		
	A = Momentary raised pushbutton red, label "STOP"	NEMA 4X Fiberglass	1NO - 1NC	1	52C103X		
	A = Momentary mushroom head red, label "STOP"	NEMA 4X Fiberglass	1NO - 1NC	1	52C104X		
	A = Maintained metal mushroom head red, label "EMERGENCY STOP"	NEMA 4X Fiberglass	1NO - 1NC	1	52C116X		
	A = 2 position selector switch "OFF-ON"	NEMA 4X Fiberglass	1NO - 1NC	1	52C159X		
A = 3 position selector switch "HAND-OFF-AUTO"	NEMA 4X Fiberglass	1NO - 1NC	1	52C156X			
2 unit control station 	B = Momentary flush pushbutton black, label "START"	NEMA 12	1NO, 1NC	2	52C201A		
	A = Momentary raised pushbutton red, label "STOP"	NEMA 12	1NO, 1NC	2	52C202A		
	B = Momentary flush pushbutton green, label "START"	NEMA 12	1NO, 1NC	2	52C202A		
	A = Momentary Mushroom head pushbutton red, label "STOP"	NEMA 12	1NO, 1NC	2	52C202A		
	B = Momentary flush pushbutton, label "FORWARD"	NEMA 12	1NO, 1NC	2	52C204A		
	A = Momentary flush pushbutton, label "REVERSE"	NEMA 12	1NO, 1NC	2	52C204A		
	B = Momentary flush pushbutton, label "UP"	NEMA 12	1NO, 1NC	2	52C223A		
	A = Momentary flush pushbutton, label "DOWN"	NEMA 12	1NO, 1NC	2	52C223A		
	B = Indicator light, red, label "RUN"	NEMA 12	120V Transformer type	2	52C224A		
	A = Maintained selector switch, label "HAND-OFF-AUTO"	NEMA 12	120V Transformer type	2	52C224A		
	B = Indicator light, red	NEMA 12	120V Transformer type	2	52C230A		
	A = Indicator light, green	NEMA 12	120V Transformer type	2	52C230A		
	B = Momentary flush pushbutton black, label "START"	NEMA 4X Stainless Steel	1NO, 1NC	2	52C201S		
	A = Momentary raised pushbutton red, label "STOP"	NEMA 4X Stainless Steel	1NO, 1NC	2	52C202S		
	B = Momentary flush pushbutton green, label "START"	NEMA 4X Stainless Steel	1NO, 1NC	2	52C202S		
	A = Momentary Mushroom head pushbutton red, label "STOP"	NEMA 4X Stainless Steel	1NO, 1NC	2	52C202S		
	B = Momentary flush pushbutton, label "UP"	NEMA 4X Stainless Steel	1NO, 1NC	2	52C223S		
	A = Momentary flush pushbutton, label "DOWN"	NEMA 4X Stainless Steel	1NO, 1NC	2	52C223S		
	B = Indicator light, red, label "RUN"	NEMA 4X Stainless Steel	120V Transformer type	2	52C224S		
A = Maintained selector switch, label "HAND-OFF-AUTO"	NEMA 4X Stainless Steel	120V Transformer type	2	52C224S			
B = Momentary flush pushbutton black, label "START"	NEMA 4X Fiberglass	1NO, 1NC	2	52C201X			
A = Momentary raised pushbutton red, label "STOP"	NEMA 4X Fiberglass	1NO, 1NC	2	52C202X			
B = Momentary flush pushbutton green, label "START"	NEMA 4X Fiberglass	1NO, 1NC	2	52C202X			
A = Momentary Mushroom head pushbutton red, label "STOP"	NEMA 4X Fiberglass	1NO, 1NC	2	52C202X			
B = Momentary flush pushbutton, label "UP"	NEMA 4X Fiberglass	1NO, 1NC	2	52C223X			
A = Momentary flush pushbutton, label "DOWN"	NEMA 4X Fiberglass	1NO, 1NC	2	52C223X			
B = Indicator light, red, label "RUN"	NEMA 4X Fiberglass	120V Transformer type	2	52C224X			
A = Maintained selector switch, label "HAND-OFF-AUTO"	NEMA 4X Fiberglass	120V Transformer type	2	52C224X			

① NEMA 4X Stainless Steel Enclosure is 304 SS.

Technical Specifications on page on page 10/169A

Pushbutton Units and Indicator Lights

30 mm Heavy Duty, Watertight/Oiltight, Class 52

• Revised •
03/20/2012

Class 52 oiltight pushbutton stations

Selection and ordering data

Actuator identification	Degree of protection ^①	Contact / voltage	No. of command points	Order no.	List Price	Pack
					\$	Unit
C = Indicator light, red B = Momentary flush pushbutton black, label "START" A = Momentary raised pushbutton red, label "STOP"	NEMA 12	120V 1NO, 1NC 1NO, 1NC 1NO, 1NC	3	52C307A		
C = Momentary flush pushbutton black, label "FORWARD" B = Momentary flush pushbutton black, label "REVERSE" A = Momentary raised pushbutton red, label "STOP"	NEMA 12	1NO, 1NC 1NO, 1NC 1NO, 1NC	3	52C301A		
C = Momentary flush pushbutton black, label "UP" B = Momentary flush pushbutton black, label "DOWN" A = Momentary raised pushbutton red, label "STOP"	NEMA 12	1NO, 1NC 1NO, 1NC 1NO, 1NC	3	52C332A		
C = Momentary flush pushbutton black, label "OPEN" B = Momentary flush pushbutton black, label "CLOSE" A = Momentary raised pushbutton red, label "STOP"	NEMA 12	1NO, 1NC 1NO, 1NC 1NO, 1NC	3	52C333A		
C = Momentary flush pushbutton black, label "HI" B = Momentary flush pushbutton, black label "LOW" A = Momentary raised pushbutton red, label "STOP"	NEMA 12	1NO, 1NC 1NO, 1NC 1NO, 1NC	3	52C334A		
C = Indicator light, red B = Momentary flush pushbutton black, label "START" A = Momentary raised pushbutton red, label "STOP"	NEMA 4X Stainless Steel	120V 1NO, 1NC 1NO, 1NC 1NO, 1NC	3	52C307S		
C = Momentary flush pushbutton black, label "FORWARD" B = Momentary flush pushbutton black, label "REVERSE" A = Momentary raised pushbutton red, label "STOP"	NEMA 4X Stainless Steel	1NO, 1NC 1NO, 1NC 1NO, 1NC	3	52C301S		
C = Momentary flush pushbutton black, label "UP" B = Momentary flush pushbutton black, label "DOWN" A = Momentary raised pushbutton red, label "STOP"	NEMA 4X Stainless Steel	1NO, 1NC 1NO, 1NC 1NO, 1NC	3	52C332S		
C = Momentary flush pushbutton black, label "OPEN" B = Momentary flush pushbutton black, label "CLOSE" A = Momentary raised pushbutton red, label "STOP"	NEMA 4X Stainless Steel	1NO, 1NC 1NO, 1NC 1NO, 1NC	3	52C333S		
C = Momentary flush pushbutton black, label "HI" B = Momentary flush pushbutton, black label "LOW" A = Momentary raised pushbutton red, label "STOP"	NEMA 4X Stainless Steel	1NO, 1NC 1NO, 1NC 1NO, 1NC	3	52C334S		
C = Indicator light, red B = Momentary flush pushbutton black, label "START" A = Momentary raised pushbutton red, label "STOP"	NEMA 4X Fiberglass	120V 1NO, 1NC 1NO, 1NC	3	52C307X		
C = Momentary flush pushbutton black, label "FORWARD" B = Momentary flush pushbutton black, label "REVERSE" A = Momentary raised pushbutton red, label "STOP"	NEMA 4X Fiberglass	1NO, 1NC 1NO, 1NC 1NO, 1NC	3	52C301X		
C = Momentary flush pushbutton black, label "UP" B = Momentary flush pushbutton black, label "DOWN" A = Momentary raised pushbutton red, label "STOP"	NEMA 4X Fiberglass	1NO, 1NC 1NO, 1NC 1NO, 1NC	3	52C332X		
C = Momentary flush pushbutton black, label "OPEN" B = Momentary flush pushbutton black, label "CLOSE" A = Momentary raised pushbutton red, label "STOP"	NEMA 4X Fiberglass	1NO, 1NC 1NO, 1NC 1NO, 1NC	3	52C333X		
C = Momentary flush pushbutton black, label "HI" B = Momentary flush pushbutton, black label "LOW" A = Momentary raised pushbutton red, label "STOP"	NEMA 4X Fiberglass	1NO, 1NC 1NO, 1NC 1NO, 1NC	3	52C334X		

3 unit control station



Technical Specifications
on page 10/169A

① NEMA 4X Stainless Steel Enclosure is 304 SS.

Selection and ordering data



Version	Number of command points	Degree of protection	Order No. [Ⓞ]	List Price \$	Pack Unit
Standard enclosures come with 2 1/4" leg center for legend spacing. Automotive end plates require 2 1/2" spacing. For more than 2 contact blocks on the right or left, use extra deep enclosure. Mounting hole arrangement 1 thru 4 are in one row 6 holes are 3 down and 2 across 9 holes are 3 down and 3 across 12 holes are 4 down and 3 across 16 holes are 4 down and 4 across	1	NEMA Type 12/13	P30EMS01		
	1	NEMA Type 12/13 extra deep	P30EMS01D		
	1	NEMA Type 4/4X stainless steel	P30EMS014		
	1	NEMA Type 4/4X Fiberglass	P30EMS01X		
	2	NEMA Type 12/13	P30EMS02		
	2	NEMA Type 12/13 extra deep	P30EMS02D		
	2	NEMA Type 4/4X stainless steel	P30EMS024		
	2	NEMA Type 4/4X Fiberglass	P30EMS02X		
	3	NEMA Type 12/13	P30EMS03		
	3	NEMA Type 12/13 extra deep	P30EMS03D		
	3	NEMA Type 4/4X stainless steel	P30EMS034		
	3	NEMA Type 4/4X Fiberglass	P30EMS03X		
	4	NEMA Type 12/13	P30EMS04		
	4	NEMA Type 12/13 extra deep	P30EMS04D		
	4	NEMA Type 4/4X stainless steel	P30EMS044		
	4	NEMA Type 4/4X Fiberglass	P30EMS04X		
6	NEMA Type 12/13	P30EMS06			
6	NEMA Type 12/13 extra deep	P30EMS06D			
6	NEMA Type 4/4X stainless steel	P30EMS064			
9	NEMA Type 12/13	P30EMS09			
9	NEMA Type 12/13 extra deep	P30EMS09D			
9	NEMA Type 4/4X stainless steel	P30EMS094			
12	NEMA Type 12/13	P30EMS12			
12	NEMA Type 12/13 extra deep	P30EMS12D			
12	NEMA Type 4/4X stainless steel	P30EMS124			
16	NEMA Type 12/13	P30EMS16			
16	NEMA Type 12/13 extra deep	P30EMS16D			
16	NEMA Type 4/4X stainless steel	P30EMS164			

Order Form

Ordering Information				
<p>Enclosure Hole Arrangement</p>	<p>To order non-standard control stations select catalog numbers from the previous pages, determine the required position in the enclosure and fill in the table below. If a special legend plate is required, specify description in the table. The combined list prices of the components is the list price of the station.</p> <ul style="list-style-type: none"> Select enclosure Vertical or Horizontal. Outline Diagram at left starting at the top left-hand corner. Example: 3 unit vertical outline location No. 1A, 2A and 3A. 3 unit horizontal outline location No. 1A, 1B, and 1C List location No. and applicable catalog numbers in the table below. Use complete catalog numbers where possible 			
<p>Order No./Item No. _____</p> <p>Customer _____</p> <p>Enclosure Catalog No. _____</p>				
Location	Operator PB-SEL.-PL	Accessories Key Lock, Boot, Etc,	Legend Plate Legend or Blank	Special Marking

Ⓞ NEMA 4X Stainless Steel Enclosure is 304 SS.

Pushbutton Units and Indicator Lights

30 mm Heavy Duty, Watertight/Oiltight, Class 52

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03/20/2012

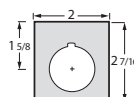
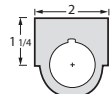
Legend plates for Class 51 and 52

Design

The 30 mm legend plates are approved for the use with both Class 51 and Class 52 devices. Automotive legend plates require 2 1/2" mounting centers. Plastic legend plates will have white letters engraved.

When ordering custom engraved legend plates, specify the required inscription text.

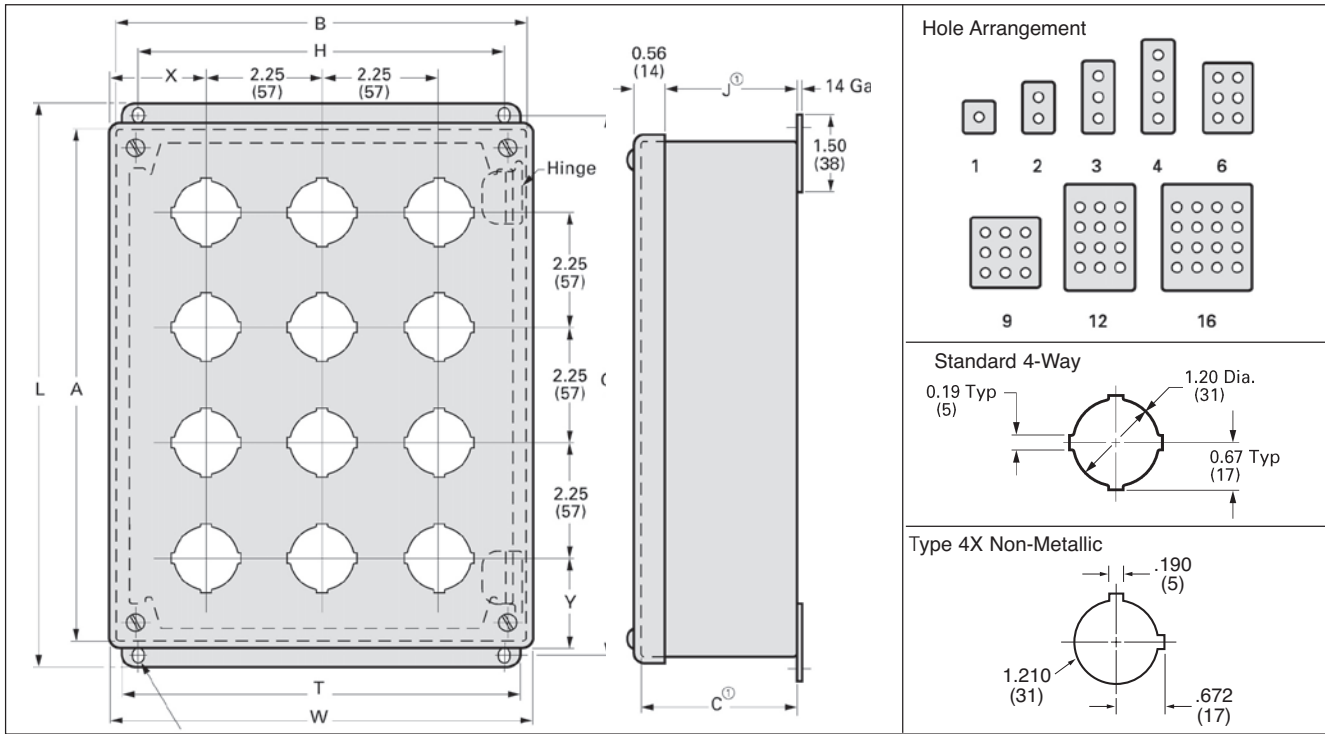
Selection and ordering data



Inscription	Large (1 7/16" x 2") Order No.	List Price \$	Automotive ^① (2 7/16" x 2 7/16") Order No.	List Price \$	Large Plastic ^② (1 7/16" x 2") Order No.	List Price \$	Automotive Plastic ^② (2 7/16" x 2 7/16") Order No.	List Price \$
"Blank (brushed aluminum)"	52NL02		52NA02		—	—	—	—
"Blank (red)"	52NL02R		52NA02R		52ND02R		52NE02R	
"Blank (Black)"	52NL02B		52NA02B		52ND02B		52NE02B	
Inscribed legend plates with large brushed aluminum background								
Close	52NL18		52NA18		—	—	—	—
Down	52NL10		52NA10		—	—	—	—
Emerg Stop	52NL16		52NA16		—	—	—	—
Emerg Stop (red)	52NL16R		52NA16R		—	—	—	—
Fast-Slow	52NL33		52NA33		—	—	—	—
Forward	52NL05		52NA05		—	—	—	—
For-Off-Rev	52NL38		52NA38		—	—	—	—
For-Rev	52NL31		52NA31		—	—	—	—
Hand-Off-Auto	52NL37		52NA37		—	—	—	—
High	52NL07		52NA07		—	—	—	—
High-Low	52NL30		52NA30		—	—	—	—
High-Off-Low	52NL44		52NA44		—	—	—	—
In	52NL21		52NA21		—	—	—	—
Jog	52NL13		52NA13		—	—	—	—
Jog-Forward	52NL24		52NA24		—	—	—	—
Jog-Reverse	52NL25		52NA25		—	—	—	—
Low	52NL08		52NA08		—	—	—	—
Lower	52NL20		52NA20		—	—	—	—
Man-Auto	52NL35		52NA35		—	—	—	—
Off	52NL12		52NA12		—	—	—	—
Off-On	52NL26		52NA26		—	—	—	—
On	52NL11		52NA11		—	—	—	—
On-Off-Auto	52NL40		52NA40		—	—	—	—
Open	52NL17		52NA17		—	—	—	—
Open-Close	52NL34		52NA34		—	—	—	—
Open-Off-Close	52NL41		52NA41		—	—	—	—
Out	52NL22		52NA22		—	—	—	—
Pull to Start Push to Stop	52NL47		52NA47		—	—	—	—
Raise	52NL19		52NA19		—	—	—	—
Raise-Lower	52NL36		52NA36		—	—	—	—
Reset	52NL14		52NA14		—	—	—	—
Reverse	52NL06		52NA06		—	—	—	—
Run	52NL23		52NA23		—	—	—	—
Run-Jog	52NL29		52NA29		—	—	—	—
Safe-Run	52NL27		52NA27		—	—	—	—
Slow-Off-Fast	52NL39		52NA39		—	—	—	—
Start	52NL03		52NA03		—	—	—	—
Start-Jog	52NL28		52NA28		—	—	—	—
Start-Stop	52NL32		52NA32		—	—	—	—
Stop	52NL04		52NA04		—	—	—	—
Stop (red)	52NL04R		52NA04R		—	—	—	—
Up	52NL09		52NA09		—	—	—	—
Up-Down	52NL49		52NA49		—	—	—	—
Up-Off-Down	52NL42		52NA42		—	—	—	—
Inscription plates with custom engraving								
"Custom engraved (brushed aluminum)"	52NL02E		52NA02E		—	—	—	—
"Custom engraved (red)"	52NL02RE		52NA02RE		52ND02RE		52NE02RE	
"Custom engraved (Black)"	52NL02BE		52NA02BE		52ND02BE		52NE02BE	
Max. number of rows	2		2		2		2	
Letter height	5/32"		1/4"		5/32"		1/4"	
Characters per row	14		16		14		16	

① Automotive requires 2 1/2" mounting centers

② White letters on plastic nameplate.



Type 12/13 and 4X Stainless Steel

Units	Enclosure Size			Mounting		Overall					
	A	B	C	G	H	L	W	J	T	X	Y
1	3.50 (89)	3.25 (83)	2.75 (70)	4.00 (102)	2.38 (60)	4.50 (114)	3.47 (88)	2.31 (59)	3.00 (76)	1.73 (44)	1.86 (47)
2	5.75 (146)	3.25 (83)	2.75 (70)	6.25 (159)	2.38 (60)	6.75 (171)	3.47 (88)	2.31 (59)	3.00 (76)	1.73 (44)	1.86 (47)
3	8.00 (203)	3.25 (83)	2.75 (70)	8.50 (216)	2.38 (60)	9.00 (229)	3.47 (88)	2.31 (59)	3.00 (76)	1.73 (44)	1.86 (47)
4	10.25 (260)	3.25 (83)	2.75 (70)	10.75 (273)	2.38 (60)	11.25 (286)	3.47 (88)	2.31 (59)	3.00 (76)	1.73 (44)	1.86 (47)
6	9.50 (241)	6.25 (159)	3.00 (76)	10.00 (254)	5.38 (137)	10.50 (267)	6.47 (164)	2.56 (65)	6.00 (152)	2.11 (54)	2.61 (66)
9	9.50 (241)	8.50 (216)	3.00 (76)	10.00 (254)	7.62 (194)	10.50 (267)	8.72 (221)	2.56 (65)	8.25 (210)	2.11 (54)	2.61 (66)
12	11.75 (298)	8.50 (216)	3.00 (76)	12.25 (311)	7.62 (194)	12.75 (324)	8.72 (221)	2.56 (65)	8.25 (210)	2.11 (54)	2.61 (66)
16 [Ⓢ]	11.75 (298)	10.75 (273)	3.00 (76)	12.25 (311)	9.88 (251)	12.75 (324)	10.97 (279)	2.56 (65) [Ⓢ]	10.50 (267)	2.11 (54)	2.61 (66)

Type 12/13 Extra Deep Enclosures

Units	Enclosure Size			Mounting		Overall					
	A	B	C	G	H	L	W	J	T	X	Y
1	4.00	4.00	4.75	4.50	3.12	5.00	4.22	4.31	3.75	2.11	2.11
2	6.00	4.00	4.75	6.50	3.12	7.00	4.22	4.31	3.75	2.11	1.98
3	8.00	4.00	4.75	8.50	3.12	9.00	4.22	4.31	3.75	2.11	1.86
4	10.00	4.00	4.75	10.50	3.12	11.00	4.22	4.31	3.75	2.11	1.73
6	9.50	6.25	4.75	10.00	5.38	10.50	6.47	4.31	6.00	2.11	2.61
9	9.50	8.50	4.75	10.00	7.62	10.50	8.72	4.31	8.25	2.11	2.61
12	11.75	8.50	4.75	12.25	7.62	12.75	8.72	4.31	8.25	2.11	2.61
16 [Ⓢ]	11.75	10.75	4.75	12.25	9.88	12.75	10.97	4.31	10.50	2.11	2.61

Type 4X Non-Metallic

Units	Enclosure Size			Mounting		Overall	
	A	B	C	G	H	L	W
1	6.00	3.19	3.63	4.88	2.94	6.63	3.81
2	6.00	3.19	3.63	4.88	2.94	6.63	3.81
3	8.26	3.19	3.63	7.13	2.94	8.88	3.81
4	10.51	3.19	3.63	9.37	2.94	11.13	3.81

All dimensions shown in inches and (millimeters). For reference purposes only. Not to be used for design or construction purposes.

Ⓢ Grounding stud in body of enclosure.
Ⓢ For stainless steel add 1.75 (45) to depth.

Pushbutton Units and Indicator Lights

30 mm Pilot Devices


• Revised •
03/20/2012

Technical Specifications

Standards	UL Listed File # E22655	CSA Certified File # LR6535
Utilization	Category NEMA	A600/P600
Degree of Protection	52B, 52P-, 52S-, 52M- Operators	NEMA: 1, 3, 3R, 4, 4X, 12 and 13 IEC 529; IP10, IP11, IP14, IP52, IP54, and IP56

Rated Operational Current

Voltage AC	NEMA A600 – 10 Continuous Amps		NEMA P600 – Rating Codes for DC Control Circuit Application	Thermal Continuous Test Current Amps
	Make Amps	Break Amps		
120V	60	6	Maximum Make or Break; Current / Amps 125V 5.0 250V 1.10 301-600V 0.55 0.20 Maximum Make or Break Volt amperes at 300V or Less 138	
240V	30	3		
480V	15	1.5		
600V	12	1.2		
Total VA	7200	720		

Contact Blocks	52BAK, -BAJ [Ⓞ] , -BAH, -BAU, -BJK [Ⓞ] 52BAR	600VAC Maximum, Heavy Duty 200VAC .25 Amp, 10 Watt Maximum 200VDC .50 Amp, 10 Watt Maximum
[Ⓞ]  Positively driven contacts.	Contact blocks are suitable for applications down to 5V/1MA low voltage applications as found in PLCs. <i>52BAR are Class 1; Division 2 Compliant</i>	

Pilot Light	Full Voltage LED Module Transformer Type	52PL4/52PL5 or 52BL4/52BL5	-B (6-8V), -C (12V), -D (24V), -E (120V) -L (24V), -M (120V), -N (240V) -G (120V), -H (240V), -J (480V), -K (600V)	120V AC Max. 240V AC Max. 600V AC Max., 50/60 Hz
Push-to-Test	Full Voltage LED Module Transformer Type	52PT6 or 52BT6	-B (6-8V), -C (12V), -D (24V), -E (120V) -L (24V), -M (120V), -N (240V) -G (120V), -H (240V), -J (480V), -K (600V)	120V AC Max. 240V AC Max. 600VAC Max., 50/60 Hz
Illuminated Push-Pull	Full Voltage LED Module Transformer	52PP2(3,7) or 52BP2(3,7)	-B (6-8V), -C (12V), -D (24V), -E (120V) -L (24V), -M (120V), -N (240V) -G (120V), -H (240V), -J (480V), -K (600V)	120V AC Max. 240V AC Max. 600VAC Max., 50/60 Hz
Illuminated Selector Switch	Full Voltage Transformer	52SA7(A,B,C) or 52SX7(A,B,C)	-B (6-8V), -C (12V), -D (24V), -E (120V) -G (120V), -H (240V), -J (480V), -K (600V)	120V AC Max. 600V AC Max., 50/60 Hz

Dielectric Strength 2200V for one minute

Mechanical Design Life Cycles

Vibration	Frequency 5 - 60Hz.; Disp. .030 inches, sweep 5 minutes for a duration of 30 minutes on each axis. Not to exceed 5.5 G's for maximum of 1 minute.	
Pushbuttons	Momentary, Non-illuminated Momentary, Illuminated	5,000,000 Operating Cycles 300,000 Operating Cycles
Push-Pull	Maintained Momentary	300,000 Operating Cycles 2,000,000 Operating Cycles
Twist-to-Release		300,000 Operating Cycles
Selector Switches	Non-illuminated Illuminated, Key-operated	2,000,000 Operating Cycles 2,000,000 Operating Cycles
Contact Operation	Standard Contact Block Logic Reed	
Wire Gauge	#18-12 AWG	
Terminal Screw Torque	2-10 lb-in / 20 lb-in max; 8 lb-in recommended	
Locknut Torque	15 ft. lbs. max	
Temperature Range	Operating Storage	31F to +158F (-35C to +70C) 40F to +185F (-40C to +85C)

All parts are designed and manufactured of corrosion resistant material or are plated or painted as corrosion protection. All contact block contacts are gold flashed as a standard offering. Internal return spring mechanisms of operators and contact blocks of stainless steel. RoHS Compliant.

Declaration of Conformity — The products listed below, to which this declaration relates, are in conformity with the following standards, following the provisions of the Low Voltage Directive (LVD) (73/23/EEC), and the Electromagnetic Compatibility Directive (89/336/EEC.)

Products: Contact Blocks: Cat Nos. 52BAE, 52BAH, 52BAJ, 52BAK, 52BAR, 52BAU and 52BJK, with suffixes. Pilot Lights: Cat Nos 52P, with suffixes. Operators: Cat Nos 52S or 52P, with suffixes.

Applicable Standards: EN 60947-5-1 Low-Voltage Switchgear and controlgear. Enclosed devices meet the requirements of environmental ratings of IP10, IP11, IP14, IP52, IP54, and IP56. Open devices, when mounted as instructed, in environmental type IP10, IP11, IP14, IP52, IP54 or IP56 enclosures, maintain the environmental requirements for those enclosure types. Cat. No. 52BP, 52BR, 52PP, and 52PR, 2 Position, Twist-To-Release and 2 Position, Push Pull Maintained operators provided with red operating heads and 52BJK contact blocks meet the requirements of EN 60947-5-5 for Electrical Emergency Stop Device With Mechanical Latching Function (e-stop).

• Revised •
03/20/2012

Pushbutton Units and Indicator Lights



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1
2
3
4
5
6
7
8
9
10

SIRIUS Signal Columns

Introduction

Description



Features

8WD42 (50 mm) 8WD44 (70mm) Diameter

- All around 360% visibility.
- Signal Module versions: Steady-light element (lamp/LED), Repeated-flash light element (lamp/LED) Single-flash light element, Rotating-Beacon element (LED), Buzzer element and Siren element.
- Total Communication-capable via an AS-I adaptor element.
- 5 colors: red, yellow, green, white and blue.
- 8WD42 IP54 rated.
- 8WD44 IP65 rated.
- Signal and acoustic elements with adjustable tone and volume
- Up to 4 (8WD42), 5 or maximum of 10 elements (8WD44) can be connected together using two-sided mounting bracket 8WD4308-0CB.
- The new 8WD44 prismatic design for significantly improved illumination.
- 8WD44 offers both Screw and Cage Clamp terminal connection elements.
- UL listed and CE marked.

Easy installation

- No tools are required to assemble modules. Simply place the module against the white marker line, give it a quick twist and the bayonet-latching mechanism connects the individual modules to provide a reliable mechanical and electrical connection, which is resistant to vibration. This is a standard feature of 8WD42 and 8WD44.
- Incandescent or LED bulbs are twisted into modules that require filament lamps. To remove simply untwist bulb. LED bulbs are built on printed circuit boards to provide brighter and longer life elements. The LED's are not replaceable.
- The AS-Interface adapter module is positioned first on the connection element. A maximum of four more signal modules can be added.
- The siren and buzzer modules are placed in the top position of the column.

Application

8WD Signal Columns are used in machines or in automatic processes for monitoring complex procedures or as visual or acoustic warning devices in emergency situations. By means of signal tower various production stages can be indicated using just one signaling device.

Sound modules

Using the buzzer or the Siren element provides an audible signal.

The tone of the buzzer module can be adjusted as desired between a pulsating and a continuous tone by means of a DIP Switch.

The volume amplification of the siren module can be selected in 100dB version by means of a potentiometer and there are possible 8 tone settings. The siren and buzzer modules are placed in the top position of the column.

AS-Interface adapter element

△ The 8WD4 signal columns can be directly connected by simple integration of an AS-interface element. The actuators are connected to networking system actuator-sensor-interface-this considerably reduces complex wiring. This element is to be mounted as the lowermost element in the signal tower.

Floor mounting

The 8WD42 signal columns are mounted on the floor with an 8WD4208-0DE plastic foot.

The 8WD44 signal columns can be directly screwed onto the terminal connection element for floor mounting.

Pipe mounting

Single pipes are available in various lengths from 100mm to 1000mm. The cast-iron foot for pipe mounting is recommended for pipes of more than 400 mm in length to improve stability.

Angle mounting

The 90° angle bracket accessories for wall and surface mounting are attached directly to the terminal connection element.

With the exception of the 8WD4408-OCC bracket, a single foot or integrated foot pipe is required.

Single-hole mounting

The single-hole adapter (8WD4208-OEH) attaches directly to terminal element connection.

Cable outlet

The connecting cables can either be guided downwards or sideways through the cable gland via an adapter that can be screwed under the foot. This makes wiring easier if there is no access from below.

Technical data

SIRIUS signal columns

Type	8WD42	8WD44
Enclosure	Thermoplastic (polyamide), impact-resistant, black	Thermoplastic (polyamide), impact-resistant, black
Light elements	Thermoplastic (polycarbonate)	Thermoplastic (polycarbonate)
Fixing	<ul style="list-style-type: none"> horizontal (floor mounting, foot with 25-mm Ø pipe) horizontal (single-hole mounting) vertical with bracket 	<ul style="list-style-type: none"> horizontal (floor mounting, foot with 25-mm Ø pipe) vertical with bracket
Temperature	-20 °C to +50 °C (-4°F to +122°F)	-30 °C to +50 °C (-22°F to +122°F)
Connection	M 3 screw connection $\leq 2.5 \text{ mm}^2 \leq 0.5 \text{ Nm}$	M 3 screw connection $\leq 2.5 \text{ mm}^2 \leq 0.5 \text{ Nm}$
Degree of protection		
• Light elements	IP 54	IP 65 (gasket premounted as standard with every module)
• Acoustic elements	IP 54	IP 65
Operational voltage, current consumption		
• Lamp (AC values for 50/60 Hz)		
- Steady light	UC 12 V/24 V/115 V/230 V	UC 12 V/24 V/115 V/230 V
- Repeated-flash light	UC 24 V/125 mA; 115 V/20 mA; 230 V/15 mA	UC 24 V/125 mA; AC 115 V/20 mA; AC 230 V/15 mA
- Single-flash light	-	DC 24 V/125 mA; AC 115 V/25 mA; AC 230 V/15 mA
- Max. inrush current, repeated-flash/single-flash light	-	500 mA
• LED version		
- Steady light	UC 24 V/60 mA	UC 24 V/60 mA; UC 115 V/23 mA; AC 230 V/16 mA
- Repeated-flash light	-	UC 24 V/40 mA
- Rotating beacon	-	UC 24 V/70 mA
• Acoustic elements		
• Buzzer element (Tone: pulsating or continuous, 85 dB)	UC 24 V/25 mA; 115 V/25 mA; AC 230 V/25 mA	UC 24 V/25 mA; UC 115 V/25 mA; AC 230 V/25 mA
• Siren element (8 tones + amplification can be set, 100 dB)	-	UC 24 V/80 mA; AC 115 V/30 mA; AC 230 V/16 mA
• Siren element (108 dB)	-	DC 24 V/100 mA
Power consumption		
• Lamps, base BA 15d	max. 5 W	7 W
• Single-flash light	-	Flash energy 2 Ws

AS-Interface adapter element

Type	8WD42 with external auxiliary voltage	8WD44 without external auxiliary voltage	8WD44 with external auxiliary voltage
IO code/ID code	8/F	8/F	8/F
Supply	via bus cable	via bus cable	via bus cable
Operational voltage	18.5 V to 31.6 V	18.5 V to 31.6 V	18.5 V to 31.6 V
Supply current I_{\max}	50 mA	210 mA	75 mA
Watchdog	integrated	integrated	integrated
Short-circuit/overload protection	upstream fuse M 1.6 A	integrated	upstream fuse M 1.6 A
Polarity reversal protection	integrated	integrated	integrated
Induction protection	not applicable	integrated	not applicable
Load voltage	external auxiliary voltage DC 0 V to 30 V AC 0 V to 230 V	via bus cable	external auxiliary voltage DC 10 V to 120 V AC 10 V to 230 V
Outputs	4 units, relay	4 units, solid-state	4 units, relay
Current carrying capacity ΣI_{\max}	1.5 A	200 mA	1.5 A
Operating temperature	-20 °C to +50 °C (-4°F to +122°F)	-20 °C to +50 °C (-4°F to +122°F)	-20 °C to +50 °C (-4°F to +122°F)
Degree of protection	IP 54	IP 65	IP 65





Pushbutton Units and Indicator Lights

SIRIUS Signal Columns

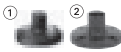






8WD42

Selection and ordering data

Diameter 50 mm, thermoplastic enclosure, degree of protection IP 54

Design	Color	8WD42 signal. columns		8WD42 signal. columns		8WD42 signal. columns		Weight approx. kg	
		Order No.	List Price \$ 1 unit	Order No.	List Price \$ 1 unit	Order No.	List Price \$ 1 unit		
 <p>8WD42 00-1A. Lamp: Base BA 15d, 5 W, 24 V/115 V/230 V (not incl. in the scope of supply)</p> <ul style="list-style-type: none"> Steady-light element 	red							0.1	
	green								
	amber								
	clear								
	blue								
		Rated voltage UC 24 to 230 V		Rated voltage AC 115 V		Rated voltage AC 230 V			
<ul style="list-style-type: none"> Repeated-flash light element 	red	8WD42 20-1BB		8WD42 40-5BB		8WD42 50-1BB		0.1	
	green	8WD42 20-1BC		8WD42 40-5BC		8WD42 50-1BC			
	amber	8WD42 20-1BD		8WD42 40-5BD		8WD42 50-1BD			
	clear	8WD42 20-1BE		8WD42 40-5BE		8WD42 50-1BE			
	blue	8WD42 20-1BF		8WD42 40-5BF		8WD42 50-1BF			
 <p>8WD42 20-5AB LED version (integrated version)</p> <ul style="list-style-type: none"> Steady-light element LED 	red	8WD42 20-5AB	–	–	–	–	0.1		
	green	8WD42 20-5AC	–	–	–	–			
	amber	8WD42 20-5AD	–	–	–	–			
 <p>8WD42 20-0FA Acoustic elements</p> <ul style="list-style-type: none"> Buzzer element ²⁾ 80 dB, Tone adjustable: pulsating or continuous 			Rated voltage UC 115 V					0.1	
			8WD42 20-0FA	8WD42 40-0FA	8WD42 50-0FA				
 <p>8WD42 08-0AA Connection element incl. cover</p> <ul style="list-style-type: none"> mounting on pipes, brackets or floor 									0.1
			8WD42 08-0AA						

Accessories

Design	Rated voltage	Order No.	List Price \$ 1 unit	Weight approx. kg	Pack unit
 <p>8WD43 0-0DB Foot, single</p>	plastic for mounting on pipes	8WD43 08-0DB ^①		0.05	1
	plastic for mounting on floor	8WD42 08-0DE ^②			
 <p>8WD43 08-0DD Socket for foot</p>	side cable outlet	8WD43 08-0DD ^③		0.2	
	side cable outlet, with magnetic base ¹⁾	8WD43 08-0DE ^④			
		See 8WD44 accessories, page 10/168			
 <p>8WD42 08-0CA Bracket for wall mounting</p>		8WD42 08-0CD		0.2	
 <p>8WD42 08-0EH Adapter for single-hole mounting</p>		8WD42 08-0EH			
 <p>AS-Interface adapter ele. ³⁾</p> <ul style="list-style-type: none"> with external auxiliary voltage 		24 V	8WD42 28-0BB	0.1	
 <p>8WD43 58-1XX Lamps</p>	Lamp base BA 15d, 5 W	12 V	8WD43 18-1XX	0.01	10
		24 V	8WD43 28-1XX		
		115 V	8WD43 48-1XX		
		230 V	8WD43 58-1XX		
LEDs, base BA 15d	See 8WD44 accessories, page 10/168				





1) For horizontal mounting, only 1 element is recommended.

2) Operation necessitate top position mounting on column.

3) Operation necessitate mounting as the lowest element on signal column.

Selection and ordering data

Diameter 70 mm, thermoplastic enclosure, degree of protection IP 65

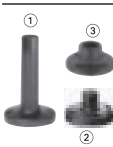








Version	Color	8WD44 signal. columns		8WD44 signal. columns		8WD44 signal. columns		Weight approx. kg		
		Order No.	List Price \$ 1 unit	Order No.	List Price \$ 1 unit	Order No.	List Price \$ 1 unit			
 8WD44 00-1A. <ul style="list-style-type: none"> Steady-light element 	<ul style="list-style-type: none"> red green amber clear blue 	Rated voltage UC 12 to 230 V						0.1		
		8WD44 00-1AB		8WD44 00-1AC		8WD44 00-1AD				
		8WD44 00-1AE		8WD44 00-1AF						
		Rated voltage UC 24 V		Rated voltage AC 115 V		Rated voltage AC 230V				
		<ul style="list-style-type: none"> Repeated-flash light element 		8WD44 20-1BB		8WD44 40-1BB			8WD44 50-1BB	
		<ul style="list-style-type: none"> green amber clear blue 		8WD44 20-1BC 8WD44 20-1BD 8WD44 20-1BE 8WD44 20-1BF		8WD44 40-1BC 8WD44 40-1BD 8WD44 40-1BE 8WD44 40-1BF			8WD44 50-1BC 8WD44 50-1BD 8WD44 50-1BE 8WD44 50-1BF	
<ul style="list-style-type: none"> Single-flash light element with built-in electronic flash (no additional lamp or LED necessary) 	<ul style="list-style-type: none"> red green amber clear blue 	8WD44 20-0CB		8WD44 40-0CB		8WD44 50-0CB		0.1		
		8WD44 20-0CC		8WD44 40-0CC		8WD44 50-0CC				
		8WD44 20-0CD		8WD44 40-0CD		8WD44 50-0CD				
		8WD44 20-0CE		8WD44 40-0CE		8WD44 50-0CE				
		8WD44 20-0CF		8WD44 40-0CF		8WD44 50-0CF				
 8WD44 20-5AB <ul style="list-style-type: none"> Steady-light element LED 	<ul style="list-style-type: none"> red green amber clear blue 	8WD44 20-5AB		8WD44 40-5AB		8WD44 50-5AB		0.1		
		8WD44 20-5AC		8WD44 40-5AC		8WD44 50-5AC				
		8WD44 20-5AD		8WD44 40-5AD		8WD44 50-5AD				
		8WD44 20-5AE		8WD44 40-5AE		8WD44 50-5AE				
		8WD44 20-5AF		8WD44 40-5AF		8WD44 50-5AF				
<ul style="list-style-type: none"> Repeated-flash light element LED 	<ul style="list-style-type: none"> red green amber 	8WD44 20-5BB		–		–				
		8WD44 20-5BC		–		–				
		8WD44 20-5BD		–		–				
		<ul style="list-style-type: none"> Rotating-beacon element LED 		8WD44 20-5DB		–			–	
		<ul style="list-style-type: none"> green amber 		8WD44 20-5DC 8WD44 20-5DD		– –			– –	
 8WD44 20-0FA <ul style="list-style-type: none"> Buzzer element ¹⁾ 85 dB Tone adjustable: pulsating or continuous Siren element ¹⁾ <ul style="list-style-type: none"> 108 dB, IP 40 Multi-tone siren, 100 dB, 8 tones and amplification can be set 		8WD44 20-0FA		Rated voltage UC 115 V 8WD44 40-0FA		8WD44 50-0FA		0.1		
		Rated voltage DC 24 V		–		–				
		8WD44 20-0EA		–		–				
		8WD44 20-0EA2		8WD44 40-0EA2		8WD44 50-0EA2				
 8WD44 08-0AA, 8WD44 08-0AD <ul style="list-style-type: none"> Screw terminals <ul style="list-style-type: none"> for mounting on pipes for mounting on bracket or floor With Cage Clamp <ul style="list-style-type: none"> for mounting on pipes for mounting on bracket or floor 		8WD44 08-0AA				0.1				
		8WD44 08-0AB								
		8WD44 08-0AD								
		8WD44 08-0AE								

¹⁾ Operation necessitate top position mounting on column.

SIRIUS Signal Columns

8WD44

Accessories

Design	Rated voltage	Order No.	List Price \$ 1 unit	Weight approx. kg	Pack
	Foot with pipe (100 mm) Foot, single Plastic foot with pipe Plastic for mounting on pipes Cast-iron foot for pipe mounting > 400 mm	8WD43 08-0DA ^① 8WD43 08-0DB ^② 8WD43 08-0DC ^③		0.1 0.05	
	Connecting socket for foot Side cable outlet Side cable outlet, with magnetic base ¹⁾ 1/2" NPT Adapter	8WD43 08-0DD ^④ 8WD43 08-0DE ^⑤ 8WD43 08-0DF		0.3 0.2 0.4	
	Pipe, single 100 mm 150 mm 250 mm 400 mm 1000 mm	8WD42 08-0EF 8WD43 08-0EE 8WD43 08-0EA 8WD43 08-0EB 8WD43 08-0ED		0.03 0.05 0.1 0.2 0.4	
	Bracket for wall mounting <ul style="list-style-type: none"> for single-sided mounting for double-sided mounting 	8WD43 08-0CA 8WD43 08-0CB		0.1	
	AS-Interface adapter element 2) <ul style="list-style-type: none"> without ext. auxiliary voltage with ext. auxiliary voltage 	 4 signalling elements up to 200 mA max. are possible 4 signalling elements up to 1,5 A max. are possible	24 V DC 24 V DC	8WD44 28-0BA 8WD44 28-0BB	0.1
	Lamps Base BA 15d, 5 W		24 V 115 V 230 V	8WD43 28-1XX 8WD43 48-1XX 8WD43 58-1XX	0.01
	LEDs Base BA 15d red green yellow clear blue red green yellow clear blue red green yellow clear blue		24 V UC AC 115 V AC 230 V	8WD44 28-6XB 8WD44 28-6XC 8WD44 28-6XD 8WD44 28-6XE 8WD44 28-6XF 8WD44 48-6XB 8WD44 48-6XC 8WD44 48-6XD 8WD44 48-6XE 8WD44 48-6XF 8WD44 58-6XB 8WD44 58-6XC 8WD44 58-6XD 8WD44 58-6XE 8WD44 58-6XF	
	Bracket for floor mounting			8WD44 08-0CC	
	Bracket for wall mounting (without feet and pipe) <ul style="list-style-type: none"> for single-sided mounting for double-sided mounting 	8WD43 08-0CA 8WD43 08-0CB			
	Bracket for base mounting	8WD44 08-0CD			

1) For horizontal mounting, only 1 element is recommended.

2) Operation necessitate mounting as the lowest element on signal column.

Construction

8WD53 SIRIUS signal beacons can be mounted directly at any point of the machine for the purpose of giving visual signals. They are mounted by means of a Pg 29 screw base with nut.

The special shape of the signal lamps means that the light is emitted optimally in every direction (to the sides and upwards). All signal lamps have a high degree of protection (IP 65) and are made of a material highly resistant to impact.

Steady lights (with lamp or LED) and single-flash lights are available in the following colours: red, green, yellow, clear and blue. The LED versions of the signal lamps offer a considerably longer service life than the lamp versions.


LED lights are available as a steady light, repeated-flash light and rotating beacon.

Technical data

Enclosure	PC/ABS composite impact-resistant, black	Operational voltage (at AC 50 Hz)	UC 24 V/115 V/230 V
Spherical cap	Thermoplastic (polycarbonate), impact-resistant to 20 J	• Steady-light (lamp/LED)	UC 24 V/115 V/230 V
Fixing	Ø 37 mm hole (Pg 29)	• Single-flash lamp	UC 24 V/125 mA; AC 115 V/20 mA; AC 230 V/15 mA
Outgoing cable unit	Radial or axial	• LED lamp	UC 24 V/70 mA
Ambient temperature		Single-flash power	2 Ws/approx. 1 Hz
• Steady-light (lamp)	-20 ... +60 °C (-4 ... +140°F)	LED lamps	
• Single-flash lamp, LED	-20 ... +50 °C (-4 ... +122°F)	• Repeated flash lamp	Flash frequency approx. 1 Hz
Degree of protection	IP 65	• Rotating-beacon	Rotating frequency approx. 120 min ⁻¹
		Inrush current	
		• LED lamp	< 0.5 A
		• Single-flash lamp	< 0.5 A

Selection and ordering data

Diameter 70 mm · Thermoplastic enclosure · Degree of protection IP 65

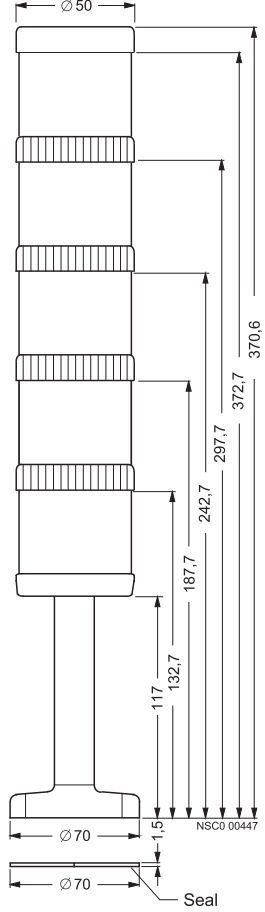
Design	Color	8WD53 built-in lamps		8WD53 built-in lamps		8WD53 built-in lamps		Weight approx. kg
		Order No.	List Price \$ 1 unit	Order No.	List Price \$ 1 unit	Order No.	List Price \$ 1 unit	
 8WD53 00-1A. Lamp: Base BA 15d, 5 W, 24 V/115 V/230 V (not included in the scope of supply)	• Steady light	Rated voltage UC 24 to 230 V						0.1
	red	8WD53 00-1AB						
	green	8WD53 00-1AC						
	yellow	8WD53 00-1AD						
	clear	8WD53 00-1AE						
	blue	8WD53 00-1AF						
			Rated voltage UC 24 V		Rated voltage AC 115 V		Rated voltage AC 230V	
	• Flashlight (with built-in electronic flash)	red	8WD53 20-0CB		8WD53 40-0CB		8WD53 50-0CB	0.1
		green	8WD53 20-0CC		8WD53 40-0CC		8WD53 50-0CC	
		yellow	8WD53 20-0CD		8WD53 40-0CD		8WD53 50-0CD	
	clear	8WD53 20-0CE		8WD53 40-0CE		8WD53 50-0CE		
	blue	8WD53 20-0CF		8WD53 40-0CF		8WD53 50-0CF		
LED version (integrated version)								
• Steady light LED	red	8WD53 20-5AB	–	–	–	–	0.1	
	green	8WD53 20-5AC	–	–	–	–		
	yellow	8WD53 20-5AD	–	–	–	–		
• Repeated-flash light LED	red	8WD53 20-5BB	–	–	–	–		
	green	8WD53 20-5BC	–	–	–	–		
	yellow	8WD53 20-5BD	–	–	–	–		
• Rotating-beacon LED	red	8WD53 20-5DB	–	–	–	–		
	green	8WD53 20-5DC	–	–	–	–		
	yellow	8WD53 20-5DD	–	–	–	–		

For lamps and LEDs, see Page 10/167.

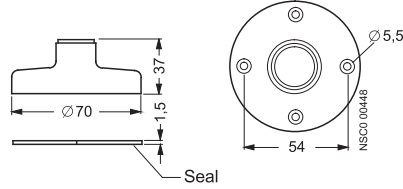
SIRIUS Signal Columns

8WD42

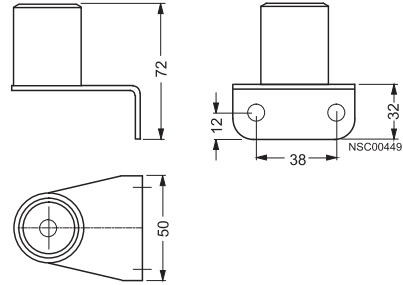
Signaling column (4-tier)



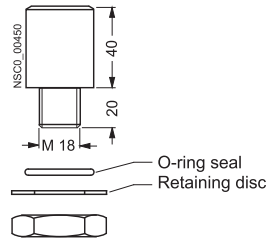
Foot



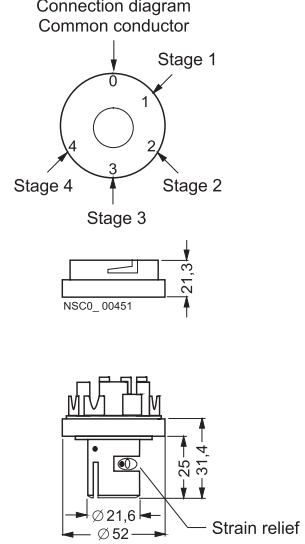
Bracket for wall mounting



Adapter for single-hole mounting

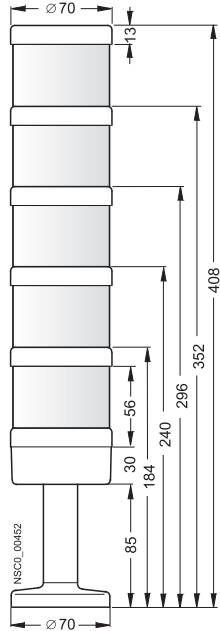


Connection element

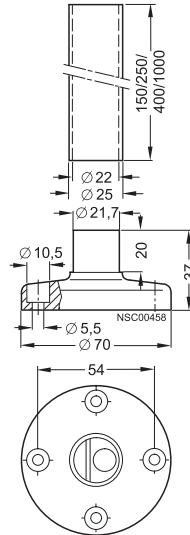


Dimension drawings

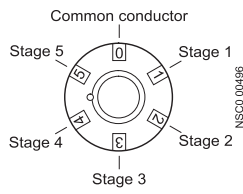
Signaling column (5-tier)



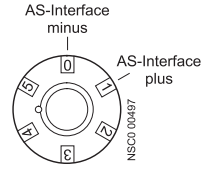
Foot with pipe



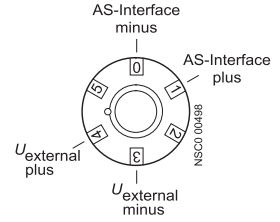
Connection diagrams



conventional

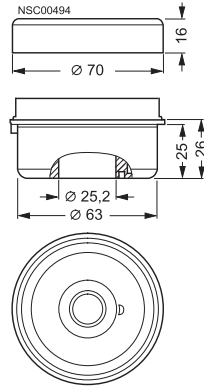


with AS-Interface,
without external auxiliary
voltage

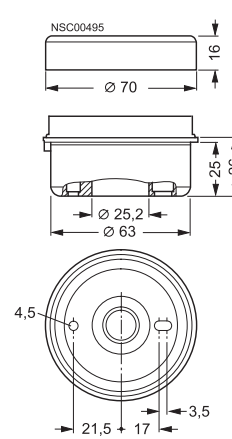


with external auxiliary voltage

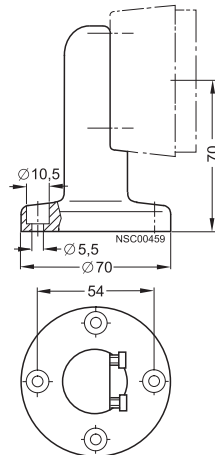
Connection element and cover for mounting on pipes



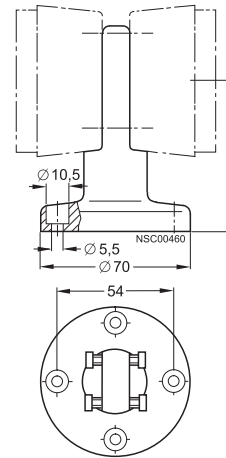
Connection element and cover for mounting on floor/bracket



Bracket for single-sided mounting



Bracket for double-sided mounting



SIRIUS Signal Beacons

8WD53

Dimension drawings

