CSM_A22_DS_E_8_11

Install in 22-dia. or 25-dia. Panel Cutout (When Using a Ring)

- Lever for easily mounting and removing the Switch Unit.
- Increase wiring efficiency with three-row mounting of Switch Blocks.
- Finger protection mechanism on Switch Unit provided as a standard feature.
- Use 25-dia. ring to install in 25-dia. panel cutouts.
- Mounted using either open-type (fork-type) or closed-type (round-type) crimp terminals.
- IP65 oil resistance (non-lighted models) IP65 (lighted models)



Refer to Safety Precautions for All Pushbutton Switches/ Indicators and Safety Precautions on page 21.



A22L-D

A22-S

List of Models

Non-lighted Pushbutton Switches

	Appearar	ice	Model number
Round	Half guard		A22-H
	Projected		A22-C
Square	Guard		A22-D
Mushroom	Mushroom Small (30 dia.)		A22-S

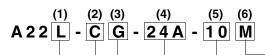
Lighted Pushbutton Switches

	Model number		
Round	Half guard		A22L-H
Square	Projected		A22L-C
	Guard		A22L-D

OMRON 1

Model Number Structure

Model Number Legend Shipped as a set which includes the Pushbutton, Lamp (lighted type only), and Switch. For information on combinations, refer to Ordering Information on pages 3 to 4.



(1) Type

Descrip-Code tion No Non-lighted symbol Lighted L

(2) Flange Shape Non-lighted

	-			
Code	Description			
Н	Round	Half-guard		
С	Square	Projected		
D	Square	Full-guard		
S	Round	Mushroom Small (30 dia.)		

Lighted

Code	Description			
Н	Round	Half-guard		
С	Sauaro	Projection		
D	Square	Full-guard		

(3) Illumination Color

Code	Descrip- tion
R	Red
G	Green
Υ	Yellow
W	White
Α	Blue
В	Black*

* For non-lighted type only

(4) Light Source Without Voltage Reduction Unit

Code	Operating Voltage			
No symbol	Non-lighted			
6A		6 VAC/VDC		
12A	LED	12 VAC/VDC		
24A		24 VAC/VDC		
		<u> </u>		

With Voltage Reduction Unit

Code	Operating Voltage		
T1	LED	100 VAC	
T2		200 VAC	

Note: LED incorporates the 24-VAC/ VDC type.

(5) Contacts

Code	Description
10	SPST-NO
01	SPST-NC
11	SPST-NO + SPST-NC
20	DPST-NO
02	DPST-NC

Note: 1. The contact ratings are for standard loads. For microloads, select from the accessories on page 8.

2. Refer to page 11 for contact ratings.

(6) Switch Action

Code Description		
М	Momentary	
Α	Alternate	

Note: 1. Momentary operation: Self-resetting

2. Alternate operation: Self-holding The Socket Unit holds and the Operation Unit resets.

- Specifications: See pages 11 to 12.
- Dimensions: Refer to page14.
- Precautions for correct use: Refer to page 21.
- Accessories and tools: See pages 8 to 10.

Completely Assembled....... Shipped as a set which includes the Pushbutton, LED (lighted type only), and Switch. **Non-lighted (Round Type)**

Operation			Momentary opera- tion (self-resetting)	Alternate operation (self-holding)	Illumination color
Appearance		Output	Set	Set	
Round/Half-guard type		SPST-NO	A22-H□-10M	A22-H□-10A	
A22-H		SPST-NC	A22-H□-01M	A22-H□-01A	
		SPST-NO + SPST-NC	A22-H□-11M	A22-H□-11A	
		SPST-NO + SPST-NO	A22-H□-20M	A22-H□-20A	R (red) Y (vellow)
	52	SPST-NC + SPST-NC	A22-H□-02M	A22-H□-02A	G (green)
Round/Small-size		SPST-NO	A22-S□-10M		W (white)
Mushroom type (30-dia. head)		SPST-NC	A22-S□-01M		A (blue) B (black)
A22-S		SPST-NO + SPST-NC	A22-S□-11M		_ (=,
		SPST-NO + SPST-NO	A22-S□-20M		
		SPST-NC + SPST-NC	A22-S□-02M		

Note: The contact ratings are for standard loads.

Non-lighted (Square Type)

	Momentary opera- tion (self-resetting)	Alternate operation (self-holding)	Illumination color	
Appearance	Output	Set	Set	
Square/Projection type	SPST-NO	A22-C□-10M	A22-C□-10A	
A22-C	SPST-NC	A22-C□-01M	A22-C□-01A	
	SPST-NO + SPST-NC	A22-C□-11M	A22-C□-11A	
	SPST-NO + SPST-NO	A22-C□-20M	A22-C□-20A	R (red) Y (vellow)
	SPST-NC + SPST-NC	A22-C□-02M	A22-C□-02A	G (green)
Square/Guard type	SPST-NO	A22-D□-10M	A22-D□-10A	W (white)
A22-D	SPST-NC	A22-D□-01M	A22-D□-01A	A (blue) B (black)
	SPST-NO + SPST-NC	A22-D□-11M	A22-D□-11A	_ (=,
	SPST-NO + SPST-NO	A22-D□-20M	A22-D□-20A	
	SPST-NC + SPST-NC	A22-D□-02M	A22-D□-02A	

Note: The contact ratings are for standard loads.

Lighted (Round Type)

		Momentary operation (self-resetting)	Alternate operation (self-holding)	Illumination		
Appearance	Output	Lighting	Operating voltage	Set	Set	color
Round/Half-guard type LED lighting	SPST-NO			A22L-H□-24A-10M	A22L-H□-24A-10A	
(without Voltage Reduction Unit) A22L-H	SPST-NC			A22L-H□-24A-01M	A22L-H□-24A-01A	
	SPST-NO + SPST-NC		24 VAC/VDC	A22L-H□-24A-11M	A22L-H□-24A-11A	
	SPST-NO + SPST-NO			A22L-H□-24A-20M	A22L-H□-24A-20A	
	SPST-NC + SPST-NC			A22L-H□-24A-02M	A22L-H□-24A-02A	R (red) Y (yellow)
Round/Half-guard type	SPST-NO	LED	100 VAC	A22L-H□-T1-10M	A22L-H□-T1-10A	G (green)
LED voltage-reduction lighting	SFS1-NO		200 VAC	A22L-H□-T2-10M	A22L-H□-T2-10A	W (white)
(with Voltage Reduction Unit)	SPST-NC		100 VAC	A22L-H□-T1-01M	A22L-H□-T1-01A	A (blue)
A22L-H	31-110		200 VAC	A22L-H□-T2-01M	A22L-H□-T2-01A	
	SPST-NO + SPST-NC		100 VAC	A22L-H□-T1-11M	A22L-H□-T1-11A	
	31 31-110 + 31 31-110		200 VAC	A22L-H□-T2-11M	A22L-H□-T2-11A	
	SPST-NO + SPST-NO		100 VAC	A22L-H□-T1-20M	A22L-H□-T1-20A	
	01 31-110 + 3531-110		200 VAC	A22L-H□-T2-20M	A22L-H□-T2-20A	
	SPST-NC + SPST-NC	1	100 VAC	A22L-H□-T1-02M	A22L-H□-T1-02A	1
	3F31-NC + 3F31-NC		200 VAC	A22L-H□-T2-02M	A22L-H□-T2-02A	1

Note: The contact ratings are for standard loads.

Individual models: Refer to pages 5 to 7.

(The Pushbutton, Lamp, and Switch can be ordered separately.)

- Specifications and dimensions: See pages 11 to 14.
- Accessories and tools: See pages 8 to 10.

3

Completely Assembled Shipped as a set which includes the Pushbutton, LED (lighted type only), and Switch. **Lighted (Square Type)**

			Momentary operation (self-resetting)	Alternate operation (self-holding)	Illumination color	
Appearance	Output	Lighting	Operating voltage	Set	Set	COIOI
Square/Projection type LED lighting	SPST-NO			A22L-C□-24A-10M	A22L-C□-24A-10A	
(without Voltage Reduction Unit) A22L-C	SPST-NC			A22L-C□-24A-01M	A22L-C□-24A-01A	
	SPST-NO + SPST-NC		24 VAC/VDC	A22L-C□-24A-11M	A22L-C□-24A-11A	
	SPST-NO + SPST-NO			A22L-C□-24A-20M	A22L-C□-24A-20A	=
	SPST-NC + SPST-NC			A22L-C□-24A-02M	A22L-C□-24A-02A	R (red) Y (yellow)
Square/Projection type	SPST-NO	LED	100 VAC	A22L-C□-T1-10M	A22L-C□-T1-10A	G (green)
LED voltage-reduction lighting			200 VAC	A22L-C□-T2-10M	A22L-C□-T2-10A	W (white)
(with Voltage Reduction Unit) A22L-C	SPST-NC	1	100 VAC	A22L-C□-T1-01M	A22L-C□-T1-01A	A (blue)
AZZL-O	3P31-NC		200 VAC	A22L-C□-T2-01M	A22L-C□-T2-01A	
	SPST-NO +	Ī	100 VAC	A22L-C□-T1-11M	A22L-C□-T1-11A	
	SPST-NC		200 VAC	A22L-C□-T2-11M	A22L-C□-T2-11A	
	SPST-NO +	Ī	100 VAC	A22L-C□-T1-20M	A22L-C□-T1-20A	
	SPST-NO		200 VAC	A22L-C□-T2-20M	A22L-C□-T2-20A	
	SPST-NC +	1	100 VAC	A22L-C□-T1-02M	A22L-C□-T1-02A	
	SPST-NC		200 VAC	A22L-C□-T2-02M	A22L-C□-T2-02A	1

Note: The contact ratings are for standard loads.

			Momentary operation (self-resetting)	Alternate operation (self-holding)	Illumination color				
Appearance	Output	Lighting	Operating voltage	Set	Set	COIOI			
Square/Full-guard type LED lighting (without Voltage Reduction Unit)	SPST-NO			A22L-D□-24A-10M	A22L-D□-24A-10A				
A22L-D	SPST-NC			A22L-D□-24A-01M	A22L-D□-24A-01A				
	SPST-NO + SPST-NC		24 VAC/VDC	A22L-D□-24A-11M	A22L-D□-24A-11A				
	SPST-NO + SPST-NO			A22L-D□-24A-20M	A22L-D□-24A-20A				
	SPST-NC + SPST-NC	LED	LED	LED	LED		A22L-D□-24A-02M	A22L-D□-24A-02A	R (red) Y (yellow) G (green)
Square/Full-guard type	SPST-NO		100 VAC	A22L-D□-T1-10M	A22L-D□-T1-10A	W (white)			
LED voltage-reduction lighting	3531-110		200 VAC	A22L-D□-T2-10M	A22L-D□-T2-10A	A (blue)			
(with Voltage Reduction Unit)	CDCT NC		100 VAC	A22L-D□-T1-01M	A22L-D -T1-01A				
AZZL-D	SPST-NC		200 VAC	A22L-D□-T2-01M	A22L-D -T2-01A				
	SPST-NO +		100 VAC	A22L-D□-T1-11M	A22L-D -T1-11A				
	SPST-NC		200 VAC	A22L-D□-T2-11M	A22L-D -T2-11A				
	SPST-NO +		100 VAC	A22L-D□-T1-20M	A22L-D□-T1-20A	1			
	SPST-NO		200 VAC	A22L-D□-T2-20M	A22L-D□-T2-20A	1			
	SPST-NC +		100 VAC	A22L-D□-T1-02M	A22L-D□-T1-02A	1			
	SPST-NC		200 VAC	A22L-D□-T2-02M	A22L-D□-T2-02A				

Note: The contact ratings are for standard loads.

Individual models: Refer to pages 5 to 7.

(The Pushbutton, Lamp, and Switch can be ordered separately.)

■ Specifications and dimensions: See pages 11 to 14.

■ Accessories and tools: See pages 8 to 10.

Subassembled The Pushbutton, Lamp, or Switch can be ordered separately. Use them in combination for models that are not available as assembled Units. These can also be used as inventory for maintenance parts.

Lighted Models Lighted Models (without Voltage Reduction Unit) **Non-lighted Models** (with Voltage Reduction Unit) Pushbutton Pushbutton Pushbutton Lamp Lamp LED LED Switch Switch (without Voltage Reduction Unit) Switch (with Voltage Reduction Unit)

Ordering set combinations: Refer to pages 3 to 4.

- Specifications and dimensions: See pages 11 to 14.
- Accessories and tools: See pages 8 to 10.

Subassembled...... The Pushbutton, Lamp, or Switch can be ordered separately. Use them in combination for models that are not available as assembled Units. These can also be used as inventory for maintenance parts.

Pushbutton Non-lighted

Sealing	IP65 oil-resistant models							
Appearance	Half-guard type	Round/Mushroom type (30-dia. head)	Square/Projection type	Square/Full-guard type				
Color	Model	Model	Model	Model				
Red	A22-HR	A22-SR	A22-CR	A22-DR				
Green	A22-HG	A22-SG	A22-CG	A22-DG				
Yellow	A22-HY	A22-SY	A22-CY	A22-DY				
White	A22-HW	A22-SW	A22-CW	A22-DW				
Blue	A22-HA	A22-SA	A22-CA	A22-DA				
Black	A22-HB	A22-SB	A22-CB	A22-DB				

Lighted

Sealing		IP65							
Appearance	Half-guard type	Square/Projection type	Square/Full-guard type						
Color	Model	Model	Model						
Red	A22L-HR	A22L-CR	A22L-DR						
Green	A22L-HG	A22L-CG	A22L-DG						
Yellow	A22L-HY	A22L-CY	A22L-DY						
White	A22L-HW	A22L-CW	A22L-DW						
Blue	A22L-HA	A22L-CA	A22L-DA						

Ordering set combinations: Refer to pages 3 to 4.

■ Specifications and dimensions: See pages 11 to 14.

■ Accessories and tools: See pages 8 to 10.

Subassembled The Pushbutton, Lamp, or Switch can be ordered separately. Use them in combination for models that are not available as assembled Units. These can also be used as inventory for maintenance parts.

Lamp LED Lamp

		Operating voltage	6 VAC/VDC	12 VAC/VDC	24 VAC/VDC
Appearance	ce	LED Color	Model	Model	Model
0	40	Red	A22-6AR	A22-12AR	A22-24AR
A22	AC and	Green	A22-6AG	A22-12AG	A22-24AG
A22	DC	Yellow *2	A22-6AY	A22-12AY	A22-24AY
•		Blue	A22-6AA	A22-12AA	A22-24AA

^{*1.} For voltage-reduction lighting, use the A22-24A□. Only 24-V LED lamps can be used. *2. Used when the Pushbutton color is yellow or white.

Switch (Standard Load) No Voltage Reduction Unit

	Classification	Non-li	ighted	Lighted		
Appearance						
	Operation	Momentary Alternate		Momentary Alternate		
Contacts		Model	Model	Model	Model	
	SPST-NO	A22-10M	A22-10A	A22L-10M	A22L-10A	
0	SPST-NC	A22-01M	A22-01A	A22L-01M	A22L-01A	
Standard load	SPST-NO + SPST-NC	A22-11M	A22-11A	A22L-11M	A22L-11A	
ioau	SPST-NO + SPST-NO	A22-20M	A22-20A	A22L-20M	A22L-20A	
	SPST-NC + SPST-NC	A22-02M	A22-02A	A22L-02M	A22L-02A	

Voltage Reduction Unit

Classification		110 VAC	C, Lighted	220 V	220 VAC, Lighted		
Appearance							
	Operation	Momentary Alternate		Momentary	Alternate		
Contacts		Model	Model	Model	Model		
	SPST-NO	A22L-10M-T1	A22L-10A-T1	A22L-10M-T2	A22L-10A-T2		
01	SPST-NC	A22L-01M-T1	A22L-01A-T1	A22L-01M-T2	A22L-01A-T2		
Standard	SPST-NO + SPST-NC	A22L-11M-T1	A22L-11A-T1	A22L-11M-T2	A22L-11A-T2		
load	SPST-NO + SPST-NO	A22L-20M-T1	A22L-20A-T1	A22L-20M-T2	A22L-20A-T2		
	SPST-NC + SPST-NC	A22L-02M-T1	A22L-02A-T1	A22L-02M-T2	A22L-02A-T2		

Ordering set combinations: Refer to pages 3 to 4.

■ Specifications and dimensions: See pages 11 to 14.

■ Accessories and tools: See pages 8 to 10.

^{*1.} A DPST-NO model is shown here as an example.
*2. For a model with a Voltage Reduction Unit, use the A22-24A□. Only 24-V LED lamps can be used.

Accessories (Order Separately) Accessories

110	em	Appearance	Classifi			Model	Remarks	
			SPST-NO	Standard		A22-10		
		2000		Microloa		A22-10S	Order Switch Blocks to add an SPST-NO	
		200	SPST-NC	Standard		A22-01 A22-01S	(A22-10) or SPST-NC (A22-01) Switch	
				Microload Standard load		A22-015 A22-20	Block (for standard loads) or to replace a	
Switch Bloo	cks		DPST-NO	DPST-NO Microload		A22-20 A22-20S	Switch Block.	
				Standard		A22-02	An A22Z-3003 Three-throw Spacer is required to mount three Non-lighted Switch	
			DPST-NC	Microloa		A22-02S	Units.	
		0 0 0	ODOT NO ODOT NO	Standard		A22-11		
			SPST-NO + SPST-NC	Microloa		A22-11S		
			Direct lighting			A22-TN		
Lamp Sock	rate	€ \$3,		110	VAC	A22-T1		
_amp ooch	Clo		Voltage-reduction lighting				Used when changing the lighting method. (LED only)	
			lighting	220	VAC	A22-T2	(LLD Offiy)	
		4000	For momentary mod	dels		A22-3200	Provided as standard. Order Mounting	
Mounting L	atches		,				Latches only when mounting Switch Blocks or Lamp Sockets that are purchased individ-	
_			For alternate models	S		A22-3210	ually.	
		- 415			White	A22Z-3321		
	Standard		With Snap-in Legen	d Plate	Red	A22Z-3322	_	
	size		(Without text)		Black	A22Z-3323	Snap-in Legend Plate is acrylic.	
_egend			Without Snap-in Leg	end Plate		A22Z-3320		
Plate -					White	A22Z-3331		
Frames			With Snap-in Legen	d Plate	Red	A22Z-3332	-	
	Large size		(Without text)		Black	A22Z-3333	Snap-in Legend Plate is acrylic.	
			Without Snap-in Leg	end Plate		A22Z-3330		
				, o	*	7.222 0000		
Lock Ring	ock Ring		Round			A22Z-3360	This Lock Ring is used when a more secure lock feature is required.	
Actallic Ro	zel Ringe		For flat or projection models			A22Z-3580	Replace with the standard model. Material: Copper alloy-Nickel chrome plat	
Metallic Bezel Rings			For full-guard models			A22Z-3582	Cannot be used with the M22.	
			For flat models			A22Z-3600F	Used to prevent dust or water from entering	
Sealing Ca	ps	('((()))))	For projection models			A22Z-3600T	the Operation Unit (Pushbutton, etc.). Color: opaque	
			For full-guard models			A22Z-3600G	Material: silicon	
			Red	Red				
			Green			A22Z-30TG A22Z-30TY	Used for changing the Pushbutton colo the (round) Pushbutton Switches. Cann	
Color Caps	3			Yellow			be used, however, with Half-guard Switch	
				White			es.	
	T		Blue			A22Z-30TA		
Caps	For A22		For projection, full-guard	d, or half-gua	ard models	A22Z-3490	Material: polycarbonate resin	
o a p o	For M22		For round models			A22Z-3495		
Three-thro	w Spacer			-		A22Z-3003	Used when mounting three Nonlighted Switches. Cannot be used with Alternate action type, knob-type Selector, and Keytype Selector because of the structure. Mushroom-type Switch provides an A22Z-3003, three-throw spacer. (See page 26.)	
Hole Plug			Round			A22Z-3530	Can be plugged into pre-cut panel holes for future expansion. The color is black. Color: Black	
			One hole			A22Z-B101		
Control Boxes (Enclosures)			3110 11010			A22Z-B201	For those designed A22Z-B1□, DPST-NO	
			One hole, yellow bo	Υ		A22Z-B101Y	or DPST-NC Switches cannot be used.	
			One note, yellow bo			A22Z-B201Y	A22Z-B2□ Control Boxes, A22-series al nate operation models, and DPST-NO,	
			Two holes			A22Z-B102	DPST-NC, and SPST-NO + SPST-NC con-	
			I WO HOIES			A22Z-B202	tacts cannot be used.	
			Thurs to the			A22Z-B103	Material: Polycarbonate resin	
			Three holes			A22Z-B203		
			7 to 9 dia					
Connectors	2		Applicable cable diameter (mm)	7 to 9 dia	а.	A22Z-3500-1	Plastic connector used to extend a cable from the Switch Box. (See 9 to 11 dia. A22Z	

OMRON

Item	Appearance	Classification	Model	Remarks
25-dia. Ring			A22Z-R25	Use when mounting to a panel with a 25-dia. hole. For details, refer to page 16. Since this is not attached to the main body, order separately.
30-dia. Resin Attachment		Round	A22Z-A30	Use when mounting to a panel with a 30-dia. hole. For details, refer to page 18.
Lock Plate			A22Z-3380	Use to fix the lever on the Switch.
Simple Protective Cover			A22Z-3700	Prevents foreign matter entering into the Switch from the back of the panel.

■ Specifications: See pages 11 to 12.

■ Dimensions: See page 14.

■ Precautions for correct use: See page 21.

■ Accessories and tools: See pages 8 to 10.

	Item	Appearance		Classification		Model	Remarks
				Bla	ck	A22Z-3443B	
			14/:464	Red		A22Z-3443R	
			Without text	Wh	ite	A22Z-3443W	
				Transp	arent	A22Z-3443C	
		_		White text on red	О	A22Z-3443R-2	
				background	STOP	A22Z-3443R-4	Attached to the Stan-
	Standard					A22Z-3443B-1	dard-size Legend Plate
	size				START	A22Z-3443B-3	Frame. (See page 26.)
			With text		ON	A22Z-3443B-5	Material: Acrylic
Cnon in			willi text	White text on	OFF	A22Z-3443B-6	
Snap-in Legend				black background	UP	A22Z-3443B-7	
Plates					DOWN	A22Z-3443B-8	
i iaics					POWER ON	A22Z-3443B-9	
					OFF-ON	A22Z-3443B-10	
		arge size	Without text	Black		A22Z-3453B	Used as an Emergency Stop Switch Legend Plate. (See page 26.)
	Lorgo sizo			Red		A22Z-3453R	
	Large size			White		A22Z-3453W	
				Transparent		A22Z-3453C	Material: Acrylic
	For Emer- gency Stop	DIACK TEXT OIL		60-dia. round plate on a yellow backgr	ound	A22Z-3466-1	EMERGENCY STOP is engraved on the plate. Used
	Switch	STOP	yellow back- ground	90-dia. round plate with black letters on a yellow background		A22Z-3476-1	as an Emergency Stop Switch Legend Plate
			No print (Rou	ind)		A22Z-3460	
		~~	Character			A22Z-3460-1	After printing on a film, af-
Characte	or Films	:l	print	Ċ)	A22Z-3460-2	fix to the indicator plate of
Onaracle	51 [111115	1 7 5	(Round)	STA	.RT	A22Z-3460-3	the Lighted Pushbutton Switch. (The back is
			(i touriu)	STO	OP	A22Z-3460-4	coated with adhesive.)
		7	No print (Squ	are)		A22Z-3480	

Tools

Itom	Апрасиона	Classification	Model	Domostro
Item	Appearance	Classification	Wodei	Remarks
Lamp Extractor			A22Z-3901	Rubber tool used to easily replace Lamps
Tightening Wrench			A22Z-3905	Used to tighten mounting nuts from the back of the panel and to replace the cap of the Lighted Emergency Switch.
Cap Tightening Tool	6		A22Z-3908	Used for replacing the cap of the Half-guard Pushbutton Switch.
Cap Puller			A3PJ-5080	Used for removing the cap from the Pushbutton of the Square Lighted Pushbutton Switch.

 \blacksquare Specifications: See pages 11 to 12.

■ Precautions for correct use: See page 21.

■ Dimensions: See page 14.

■ Accessories and tools: See pages 8 to 10.

Specifications

Approved Standard Ratings

UL, cUL (File No. E41515)

6 A at 220 VAC, 10 A at 110 VAC

Note: Only Switch Blocks and Lamp Sockets are recognized by UL. Refer to Page 8 for the model numbers.

EN60947-5-1 (Low Voltage Directive)

3 A at 220 VAC

CCC (GB/T14048.5)

3 A at 240 VAC, 1.5 A at 24 VDC

Ratings

Contacts (Standard Load)

Contacts	Rated	Rated current (A)					
(Standard Load)	voltage	Induc- tive load	Resis- tive load	Induc- tive load	Resis- tive load		
	24 VAC	10	10				
	110 VAC	5	10	·			
	220 VAC	3	6				
	380 VAC	2	3				
10A	440 VAC	1	2	·			
	24 VDC			1.5	10		
	110 VDC			0.5	2		
	220 VDC			0.2	0.6		
	380 VDC			0.1	0.2		

Note: 1. The above ratings were obtained by conducting tests under the following conditions.

- (1) Ambient temperature: 20±2°C
- (2) Ambient humidity: 65±5% RH
- (3) Operating frequency: 20 operations/minute 2. Minimum applicable load: 10 mA at 5 VDC

Contacts (Microload)

Rated applicable load	100 mA at 30 VDC (Resistive load)
Minimum applicable load	1 mA at 5 VDC

LED Indicators

Rated voltage	Rated current	Operating voltage
6 VAC/VDC		6 VAC/VDC±5%
12 VAC/VDC	8 mA	12 VAC/VDC±5%
24 VAC/VDC		24 VAC/VDC±5%

Voltage-reduction Lighting

Rated voltage	Rated current	Operating voltage	Applicable lamp (BA9S/Base: 13)
110 VAC	8 mA	100 VAC (95 to 115 V)	LED Lamp
220 VAC	OIIIA	200 VAC (190 to 230 V)	(A22-24A□)

Specifications

Characteristics

Туре		Pushbutton Switches		Knob-type Selector Switches		Key-type Selector Switch	Indicator
Item		Non-lighted models: A22-H A22-S A22-C A22-D	Lighted models: A22L-H A22L-C A22L-D	Non-lighted model: A22S	Lighted model: A22W	Non-lighted model: A22K	M22
Allowable	Mechanical	Momentary operation: 60 operations/minute max.		Manual reset: 30 operations/minute max. Automatic reset: 30 operations/minute max.			
requency	Electrical		30	operations/minute max	ζ.		
nsulation i	resistance			100 MΩ min. (a	at 500 VDC)		
Contact	Standard load			100 mΩ max. ((initial value)		
esistance	Microload			100 mΩ max. ((initial value)		
Dielectric	Between termi- nals of same polarity		2,500VAC, 50/60Hz for 1min				
strength	Between each terminal and ground		2,500VAC, 50/60Hz for 1min				
/ibration esistance	Malfunction *1	Malfunction *2: 10 to 55 Hz, 1.5-mm double amplitude					
Shock	Destruction	1,000 m/s² max.	1,000 m/s ² max.	1,000 m/s ² max.	1,000 m/s ² max.	1,000 m/s ² max.	1,000 m/s ² max
esistance	Malfunction *1	1,000 m/s ² max.	600 m/s ² max.	1,000 m/s ² max.	600 m/s ² max.	1000 m/s² max.	600 m/s ² max.
Ourability	Mechanical	Momentary 5,000,000 op		500,000 operations min.	100,000 operations min.	500,000 operations min.	
Jurability	Electrical	500,000 ope	500,000 operations min.		100,000 operations min.	500,000 operations min.	
Ambient op emperatur		−20°C to 70°C	−20°C to 55°C	–20°C to 70°C	–20°C to 55°C	−20°C to 70°C	–20°C to 55°C
Ambient op numidity	perating	35% to 85% RH					
Ambient st emperatur		−40°C to 70°C					
Degree of p	protection *3	IP65 (oil-resistant)	IP65	IP65 (oil-resistant)	IP65	IP65 (oil-resistant)	IP65
Electric sho	ock protection	Class II					
PTI tracking cl	haracteristic)	175					
Degree of o	contamination			3 (IEC94	7-5-1)		

Operating Characteristics (for SPST-NO/SPST-NC)

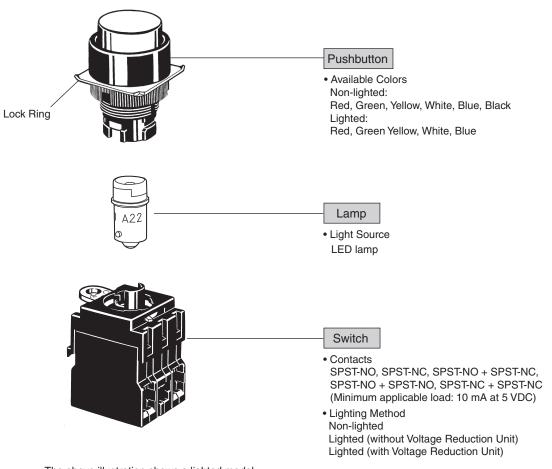
Туре	Pushbutton Switches	Knob-ty	pe Selector	Key-type S	elector Switch
	Lighted Nonlighted Pushbutton Switches	Manual reset	Automatic reset	Manual reset	Automatic reset
Item	A22-H A22-C A22-D A22-S A22L-H A22L-C A22L-D	A22S A22W		A22K	
Total travel force (TTF) max.	29.4 N	0.34 N·m*	0.25 N·m for two notches * 0.34 N·m for three notches *	0.34 N·m*	0.25 N·m for two notches * 0.34 N·m for three notches *
Total travel (TT)	5.5 mm max.	Approx. 90° for two notches (Approx. 45° for three notches)			for two notches for three notches)
Resetting force (RF) min.		0.34 N⋅m max.*		0.34 N·m max.*	

^{*} Rotation torque for Knob-type Selector and Key-type Selector Switches.

^{*1.} Malfunction within 1 ms.
*2. With no icing or condensation.
*3. Degree of protection from the front of the panel.

Nomenclature

Model Structure

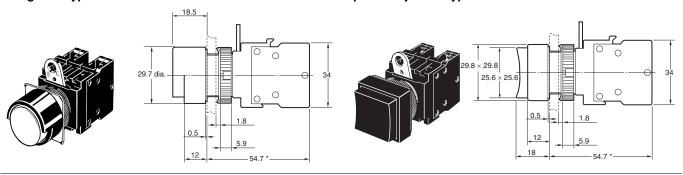


The above illustration shows a lighted model.

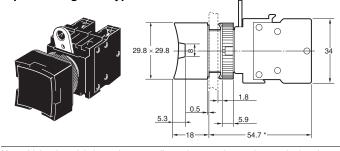
Lighted/Non-lighted Pushbutton Switches (The following illustrations are for momentary operation.)

Half-guard Type/A22-H/A22L-H

Square/Projection type/A22-C/A22L-C

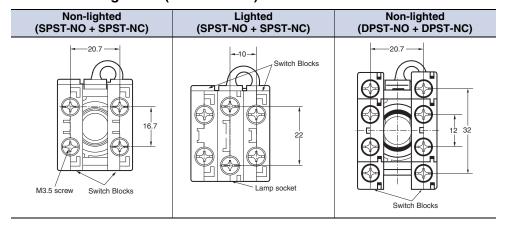


Square/Full-guard Type/A22-D/A22L-D



Note: Lighted models have the same dimensions as shown above, whether they are with or without Voltage Reduction Units.
* Alternate operation models are 9.3 mm longer.

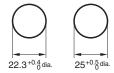
Terminal Arrangement (Bottom View)



Terminal Connection

Item	Terminal connection
Non-lighted (SPST-NO + SPST-NC)	BOTTOM VIEW 1 3 2 4
Non-lighted (DPST-NO + DPST-NC)	BOTTOM VIEW (1) (2) (2) (2) (4)
Lighted without Voltage Reduction Unit (SPST-NO + SPST-NC)	BOTTOM VIEW (1) (x) (3) (+) (4) (4)
Lighted with Voltage Reduction Unit (SPST-NO + SPST-NC)	BOTTOM VIEW (1) (3) (3) (4)

Panel Cutouts

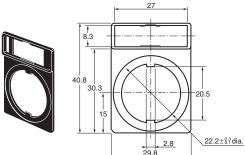


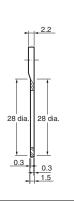
Lock ring is provided as a standard item.

- When applying coating such as paint to the panel, the dimensions should be those after the application of coating.
- Recommended panel thickness: 1 to 5 mm.
- Use an A22Z-R25 Ring when mounting to a panel with 25-mm holes.

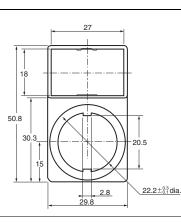
Accessories

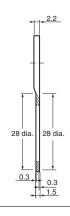








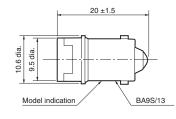




Lamp

LED A22-6□, 12□, 24□

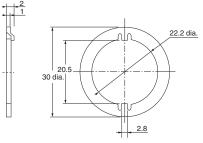




Lock Ring A22Z-3360

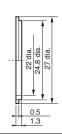


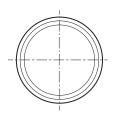




25-dia. Ring A22Z-R25







Color Cap A22Z-30T□

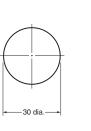


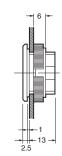






Hole Plug (Round) A22Z-3530

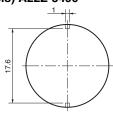


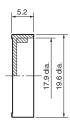


Caps

A22 (for round models) A22Z-3490

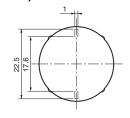


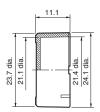




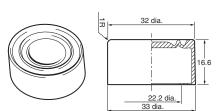
M22 (for round models) A22Z-3495



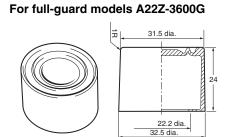




Sealing Caps For Flat Models A22Z-3600F

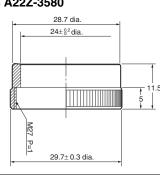


For projection models A22Z-3600T



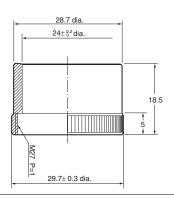
Metallic Bezel Rings For Flat/Projection Models A22Z-3580





For full-guard models A22Z-3582



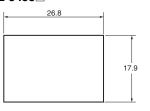


Snap-in Legend Plates For Standard Models A22Z-3443□-□







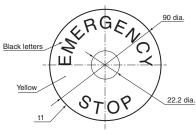


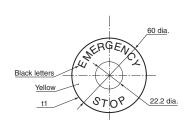


For Emergency-stop Models



A22Z-3476-1 (90 dia.)

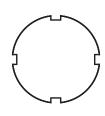


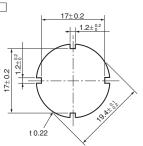


A22Z-3466-1 (60 dia.)

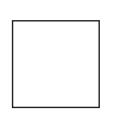
Character Film

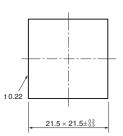






For Square Models A22Z-3480

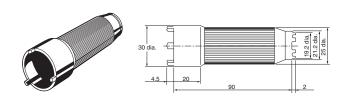




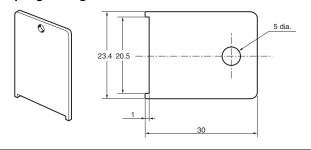
Lamp Extractor A22Z-3901

11 dia. 8.5 dia.

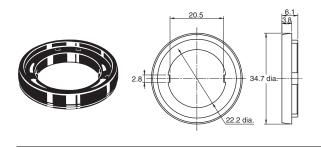
Tightening Wrench A22Z-3905



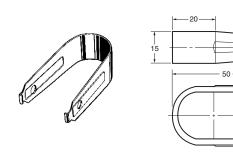
Cap Tightening Tool A22Z-3908



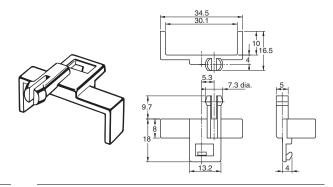
30-dia. Resin Attachment A22Z-A30



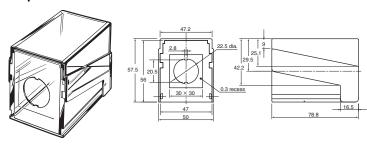
Cap Puller A3PJ-5080



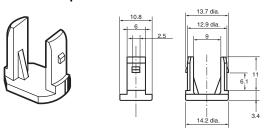
Lock Plate A22Z-3380



Simple Protective Cover A22Z-3700



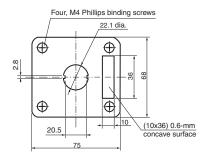
Three-throw Spacer A22Z-3003

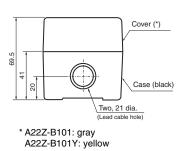


Control Box (Enclosure) A22Z-B10□



A22Z-B101 (One Hole) A22Z-B101Y





16±1 dia.
(Lead cable hole)

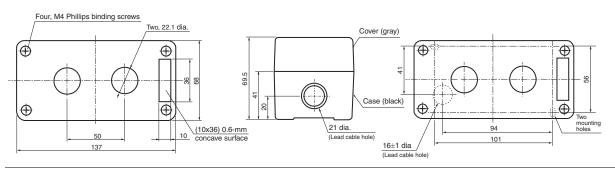
32

Two mounting holes

A22Z-B102 (Two Holes)

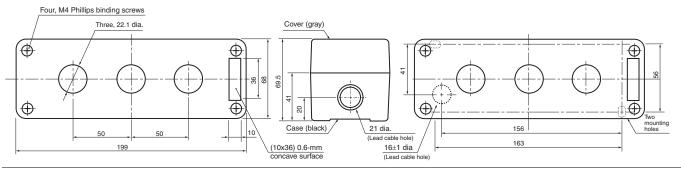
Cable Port Hole (Top View)

Cable Port Hole (Top View)



A22Z-B103 (Three Holes)

Cable Port Hole (Top View)



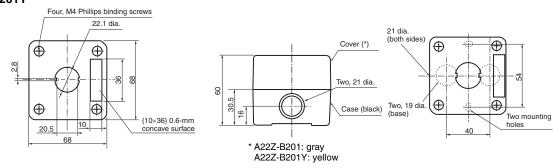
(Panel Mounting Hole)



Control Box A22Z-B20□

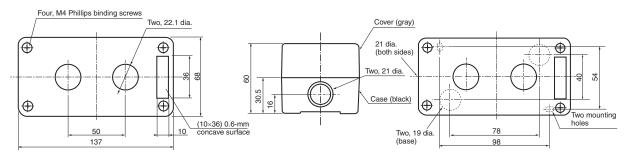
A22Z-B201 (One Hole) A22Z-B201Y

Cable Port Hole (Top View)



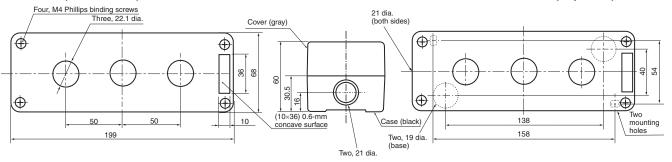
A22Z-B202 (Two Holes)

Cable Port Hole (Top View)



A22Z-B203 (Three Holes)

Cable Port Hole (Top View)



(Panel Mounting Hole)



Safety Precautions

Refer to Safety Precautions for All Pushbutton Switches/Indicators.

MARNING

Do not apply a voltage between the LED and the terminal that is greater than the rated voltage. If the LED is broken, the Operation Units may pop out.

Always turn OFF the power and wait for 10 minutes before replacing the incandescent lamp. If the lamp is replaced immediately after the power is turned OFF, the remaining heat may cause burns.

Precautions for Correct Use

Mounting

- Do not perform wiring with power supplied to the Switch. Do not touch the terminals or other charged parts of the Switch while power is being supplied. Doing so may result in electric shock.
- Always make sure that the power is turned OFF before mounting, removing, or wiring the Switch, or performing maintenance.
 Do not tighten the mounting ring more than necessary using tools such as pointed-nose pliers. Doing so will damage the mounting ring

The tightening torque is 0.98 to 1.96 N·m.

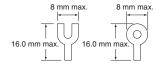
- Recommended panel thickness: 1 to 5 mm.
- When mounting the caps after changing the LED or the caps, tighten the caps at a tightening torque of 0.49 tp 0.78 N·m.

Wiring

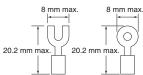
- Terminal screws must be Phillips or slotted M3.5 screws with a square washer.
- The tightening torque is 1.08 to 1.27 N·m.
- Solid wires, stranded wires, and crimp terminals can be connected to the Switch.

Applicable Wire Size

Stranded wire: 2 mm² max. Solid wire: 1.6 dia. max. Bare Crimp Terminals



Crimp Terminals with Insulating Sheath



 After wiring the Switch, maintain an appropriate clearance and creepage distance.

Operating Environment

- The IP65 model is designed with a degree of protection so that it
 will not sustain damage if it is subjected to water from any direction
 to the front of the panel.
- This switch is intended for indoor use only.
 Using the Switch outdoors will result in failure.

LED

- The LED current-limiting resistor is built-in, so internal resistance is not required.
- If commercially available LEDs are used, select the ones that meet the following conditions:

Base: BA9S/13

Overall length: 26 mm max. Power consumption: 2.6 W max.

When DC-specific LEDs are used, wire the Switch so that the X1 terminal is positive.

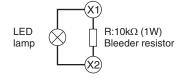
Mis-lighting of the LED

The LED lights with approx. 0.1 mA or less of micro-current. Take a countermeasure like adding a resistor to prevent mis-lighting in parallel to the LED.

The micro-current varies with the machine (leak current or stray capacity between cables, etc.). Select resistance value and allowable power consumption that meet the actual current.

(Circuit example)

In case of using 24 VAC/VDC, Direct lighting



Others

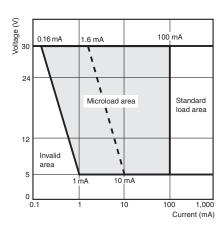
- If the panel is to be finished with coating, etc., make sure that the panel meets the specified dimensions after the coating.
- Do not subject the Switch to extreme shock or vibration. Doing so will cause malfunctions and damage to the Switch.

Using the Microload

 Insert a contact protection circuit, if necessary, to prevent the reduction of life expectancy due to extreme wear on the contacts caused by loads where inrush current occurs when the contact is opened and closed.

The minimum applicable load is the N-level reference value. This value indicates the malfunction reference level for the reliability level of 60% (λ 60) (conforming to JIS C5003).

The equation, λ 60 = 0.5 x 10⁻⁶/operations indicates that the estimated malfunction rate is less than 1/2,000,000 operations with a reliability level of 60%.

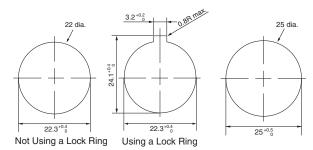


Application

Mounting to the Panel

Panel Hole Dimensions

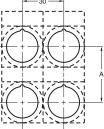
- Panel hole dimensions are given below.
- Recommended panel thickness: 1 to 5 mm.



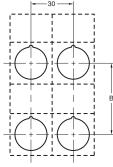
- For 25-dia. holes, always use 25-dia. Rings. (Since the cutout dimensions are large, IP65 cannot be guaranteed unless 25-dia. Rings are used.)
- If outer surface treatment such as coating is performed for the panel, the panel dimensions after outer surface treatment must meet the specified panel dimensions.

Matrix Installation

 The following panel hole dimensions apply when Switch Unit and the Standard-size Legend Plate Frame and Lock Ring are mounted, and lead wires are connected directly to the Switch Block.



2. The following panel hole dimensions apply when the Large-size Legend Plate Frame is mounted, and when crimp terminals are connected to the Switch Block terminals.



Pitches A and B between the centers of the mounting holes are as follows:

For 1. above:

Switch Blocks	Α
A22-10, A22-10S A22-01, A22-01S	45 mm min.
A22-20, A22-20S, A22-02 A22-02S, A22-11, A22-11S	55 mm min.

For 2. above:

Type of crimp terminal	Switch Blocks	В
	A22-10, A22-10S A22-01, A22-01S	51 mm min.
Bare crimp terminals	A22-20, A22-20S, A22-02 A22-02S, A22-11, A22-11S	61 mm min.
Crimp terminals with insulating sheath	A22-10, A22-10S A22-01, A22-01S	60 mm min.
	A22-20, A22-20S, A22-02 A22-02S, A22-11, A22-11S	70 mm min.

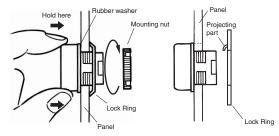
Note: 1. The above dimensions are the minimum dimensions for when the wires described under Applicable Wire Size on page 21 are used. If a different wires are used, the wiring dimensions may be different so determine an appropriate pitch before setup.

With pushbuttons of external dimensions greater than 30 mm, set the
pitch according to the dimensions. (When using matrix installation for
the A22-M□, mount with a pitch of 40 mm instead of 30 mm in the
diagram above.)

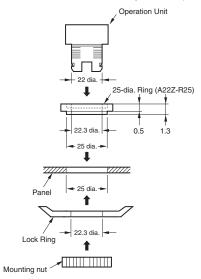
Mounting the Operation Unit on the Panel

- Insert the Operation Unit (Pushbutton, etc.) from the front surface of the panel, insert the Lock Ring and the mounting nut from the terminal side, then tighten the nut. Before tightening, check that the rubber washer is present between the Pushbutton Unit and the panel.
- When using a Legend Plate Frame, put one rubber washer each between the Legend Plate Frame and the panel and between the Operation Unit and the Legend Plate Frame. (One rubber washer will be provided when one Legend Plate Frame is ordered.)
- Align the Lock Ring with the groove in the casing, then insert the Lock Ring so that its edge is located on the panel side.

- Tighten the mounting nut at a torque of 0.98 to 1.96 N·m.
- When using a Lock Ring, replace with the supplied Lock Ring, insert the projecting part into the lock slot, and then tighten the mounting nut.

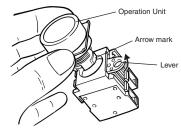


 When the panel cutout dimension is 25 dia., remove the supplied rubber washer and mount the 25-dia. Ring as shown below. (Since the A22Z-R25 is not attached to the main body, order separately.)



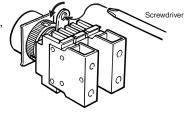
Mounting the Switch on the Pushbutton Unit

 Insert the Pushbutton Unit into the Switch Unit, aligning the arrow mark inscribed on the Case with the lever on the Switch Blocks, then move the lever in the direction indicated by the arrow in the following figure.



Removing the Switch

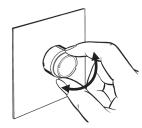
• Move the lever in the direction indicated by the arrow in the following figure, then pull the Pushbutton Unit or the Switch Blocks. Since the lever has a hole with an inside diameter of 6.5 mm, the lever can be moved in the specified direction by inserting a screwdriver into the hole and then moving the screwdriver.



Mounting/Replacing the Color Cap

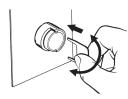
Projection, Fall-guard

Grip and rotate the Color Cap with your fingers.



Half-guard Indicators

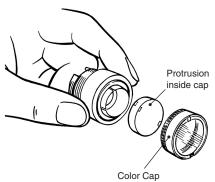
• Put the tips of the Cap Tightening Tool (A22Z-3908) into the Color Cap slot and turn the Tool.



Assembling the Cap

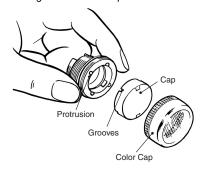
Lighted Pushbutton Switch

 Mount the Color Cap so that the protrusions inside the cap fit into the grooves in the Pushbutton Unit.



Indicator

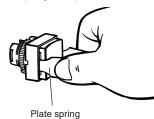
• Mount the Color Cap so that the protrusions inside the Pushbutton Unit fit into the grooves in the cap.



Square Pushbutton/Indicator

• Square Pushbutton/Indicator

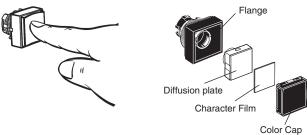
Insert the protruding tip of the Cap Puller (A3PJ-5080) into the Cap slot, hold the plate spring, and pull them to remove the Color Cap.



• Mounting the Color Cap:

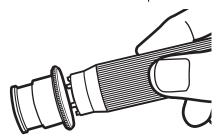
Mount the Color Cap on the flange and firmly push the Color Cap. When the Color Cap is inserted, check whether it operates properly. When replacing the Lamp, remove the Color Cap and diffusion plate with fingers or Cap Puller.

Attach the Character Film properly so that it fits inside the protruding part of the diffusion plate. Then, match the diffusion plate to the square flange and insert the Cap.



Emergency Stop Switch

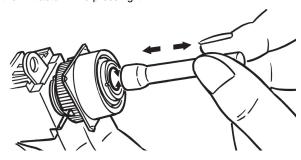
• Insert the protrusion of the Tightening Wrench (A22Z-3905) into the Cap slot and then turn to remove the Cap.



Installing/Replacing the Lamp

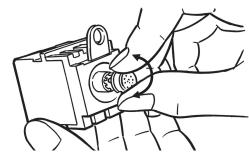
Installing/Replacing from the Panel Surface

 Insert the Lamp Extractor (A22Z-3901) into the lamp, then rotate the Extractor while pressing it.



Installing/Replacing on the Switch

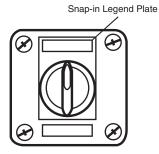
• Grip the lamp with your fingers, then rotate the lamp while pressing it against the Switch.



Control Box (Enclosure)

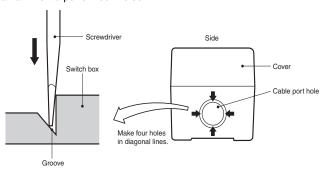
Mounting the Switch

The Standard-size Legend Plate Frame can be mounted. Mount the Frame as shown in the following diagram. Mount the Switch in the same way as for an ordinary panel.



Creating a Cable Port Hole

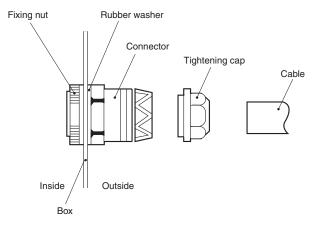
Place the tip of a screwdriver on the surface where the cable port hole is to be created with the cover attached and strike the screwdriver with a hammer to punch four holes.



Securing the Connector Cable

- Insert the connector into the cable port hole in the Box and secure with the fixing nut inside the box.
- 2. Open a hole in the thin rubber section of the rubber ring.
- 3. Pass the tightening cap through the cable, insert the cable into the connector, and tighten the hexagonal nut to secure the cable.

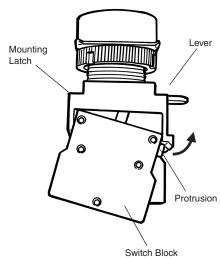
Cable diameter	Connector
7 to 9 dia.	A22Z-3500-1
9 to 11 dia.	A22Z-3500-2



Switch Blocks

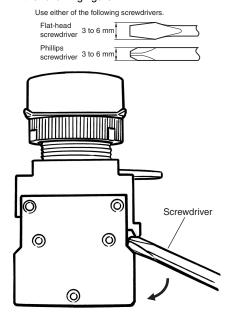
Installing the Switch Blocks

 Hook the small protrusion on the Switch Block into the groove on the Mounting Latch on the other side of the lever, then push up the Switch Block in the direction indicated by the arrow in the figure below.



Removing the Switch Blocks

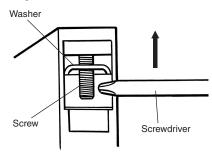
 Insert a screwdriver between the Mounting Latch and the Switch Block, then push down the screwdriver in the direction indicated by the arrow in the following figure.



Wiring

Wiring Round Crimp Terminals

• Loosen the terminal screw from the Switch Unit until it completely comes off the groove, insert a screwdriver as shown in the following figure, then push up the washer in the direction indicated by the arrow to temporarily secure it. Now, a round crimp terminal can be connected. After inserting the terminal, tighten the screws to complete wiring.



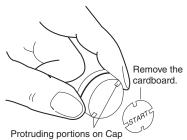
Engraving

- Engrave the characters on the surface on the Cap. Make sure that the characters are aligned parallel to the imaginary line connecting the two protruding portions to the left and right of the Cap.
- The characters must not be engraved deeper than 0.5 mm. Apply an alcohol-based paint coating, such as melamine, alkyd, or acrylic resin paint coating, to the engraved characters.



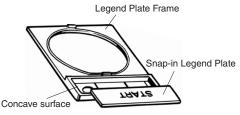
Affixing Character Film

 Hold the Cap, remove the cardboard on the Film, and attach the Film to the Cap. Make sure that the protruding portions of the Cap engage he cutout portions of the Film and that the characters are aligned parallel to the imaginary line connecting the two protruding portions to the left and right of the Cap.

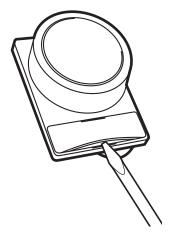


Mounting and Dismounting Snap-in Legend

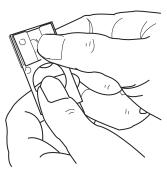
- Press and secure the Snap-in Legend Plate onto the Legend Plate Frame.
- The direction of the characters will vary with the mounting direction of the control panel if the Switch is a knob or key selector model.



 To easily remove the Snap-in Legend Plate from the Legend Plate Frame mounted to the panel, insert a Tool with a thin tip into the space between the Snap-in Legend Plate and the Legend Plate Frame.



- The Snap-in Legend Plate is easily removed by pressing the Snap-in Legend Plate from the back of the Legend Plate Frame.
- The Legend Plate Frame is made of acrylic resin, which is easily damaged by shock. Be sure to handle the Legend Plate Frame with care.



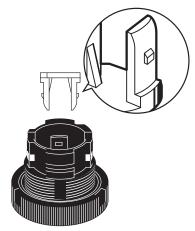
Engraving Method

Material: Acrylic

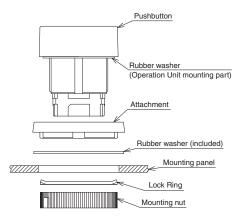
- Engrave the characters directly on the matted side of the Snap-in Legend Plate.
- The characters must be engraved no deeper than 0.5 mm.
- Apply alcohol-based paint coating to the engraved characters.
- If the Snap-in Legend Plate is transparent, engrave the mirrorwritten characters on the back of the Snap-in Legend Plate and apply paint coating to the characters. Then apply paint coating of a different color to the remaining part of the Snap-in Legend Plate.

Mounting Three-throw Spacer

Press and secure the two protruding portions of the Three-throw Spacer to the two indented portions of the inner side of the control panel.



Mounting the 30-dia. Resin Attachment



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