Product datasheet

Specification





Push button, plastic, flush, yellow, Ø22, spring return, unmarked, 1 NO

XB5AA51

Main

Range Of Product	Harmony XB5		
Product Or Component Type	Push-button		
Device Short Name	XB5		
Bezel Material Plastic Dark grey plastic			
Head Type	Standard		
Fixing Collar Material	Plastic		
Mounting Diamete	22.5 mm		
Sale Per Indivisible Quantity	1		
Shape Of Signaling Unit Head	Round		
Type Of Operator	spring return		
Operator Profile	Yellow flush, unmarked		
Contacts Type And Composition	ion 1 NO		
Contact Operation	Slow-break		
Connections - Terminals	Screw clamp terminals, <= 2 x 1.5 mm² with cable end conforming to IEC 60947-1 Screw clamp terminals, 1 x 0.222 x 2.5 mm² without cable end conforming to IEC 60947-1		

Complementary

Height	42 mm	
Width	30 mm	
Depth	52 mm	
Terminals Description Iso N°1	(13-14)NO	
Net Weight	0.037 kg	
Resistance To High Pressure Washer	7000000 Pa at 55 °C, distance : 0.1 m	
Contacts Usage	Standard contacts	
Positive Opening	Without	
Operating Travel	2.6 mm (NO changing electrical state) 4.3 mm (total travel)	
Operating Force	3.8 N NO changing electrical state	
Mechanical Durability	10000000 cycles	
Tightening Torque	0.81.2 N.m conforming to IEC 60947-1	

Shape Of Screw Head	Cross compatible with Philips no 1 screwdriver Cross compatible with pozidriv No 1 screwdriver Slotted compatible with flat Ø 4 mm screwdriver Slotted compatible with flat Ø 5.5 mm screwdriver			
Contacts Material	Silver alloy (Ag/Ni)			
Short-Circuit Protection	10 A cartridge fuse type gG conforming to IEC 60947-5-1			
[Ith] Conventional Free Air Thermal Current	10 A conforming to IEC 60947-5-1			
[Ui] Rated Insulation Voltage	600 V (pollution degree 3) conforming to IEC 60947-1			
[Uimp] Rated Impulse Withstand Voltage	6 kV conforming to IEC 60947-1			
[le] Rated Operational Current	3 A at 240 V, AC-15, A600 conforming to IEC 60947-5-1 6 A at 120 V, AC-15, A600 conforming to IEC 60947-5-1 0.1 A at 600 V, DC-13, Q600 conforming to IEC 60947-5-1 0.27 A at 250 V, DC-13, Q600 conforming to IEC 60947-5-1 0.55 A at 125 V, DC-13, Q600 conforming to IEC 60947-5-1 1.2 A at 600 V, AC-15, A600 conforming to IEC 60947-5-1			
Clectrical Durability 1000000 cycles AC-15, 2 A at 230 V, operating rate <3600 cyc/h, load factor: 0 conforming to IEC 60947-5-1: appendix C 1000000 cycles AC-15, 3 A at 120 V, operating rate <3600 cyc/h, load factor: 0 conforming to IEC 60947-5-1: appendix C 1000000 cycles AC-15, 4 A at 24 V, operating rate <3600 cyc/h, load factor: 0 conforming to IEC 60947-5-1: appendix C 1000000 cycles DC-13, 0.2 A at 110 V, operating rate <3600 cyc/h, load factor conforming to IEC 60947-5-1: appendix C 1000000 cycles DC-13, 0.5 A at 24 V, operating rate <3600 cyc/h, load factor conforming to IEC 60947-5-1: appendix C				
Electrical Reliability	Λ < 10exp(-6) at 5 V and 1 mA in clean environment conforming to IEC 60947-5-4 Λ < 10exp(-8) at 17 V and 5 mA in clean environment conforming to IEC 60947-5-4			
Device Presentation	Complete product			
Customizable	No			
Customizable	1			
Gcr Bridge	XB5AACUST01			
Compatibility Code Environment	XB5			
Protective Treatment	тн			
Ambient Air Temperature For Storage	-4070 °C			
Ambient Air Temperature For Operation	-4070 °C			
Overvoltage Category	Class II conforming to IEC 60536			
Ip Degree Of Protection	IP66 conforming to IEC 60529 IP67 IP69 IP69K			
Nema Degree Of Protection	NEMA 13 NEMA 4X			
Ik Degree Of Protection IK03 conforming to IEC 50102				
Standards	IEC 60947-5-1 CSA C22.2 No 14 IEC 60947-5-4 JIS C8201-5-1 IEC 60947-1 UL 508 JIS C8201-1			

Product Certifications	UL listed BV CSA RINA LROS (Lloyds register of shipping) DNV GL
Vibration Resistance	5 gn (f= 2500 Hz) conforming to IEC 60068-2-6
Shock Resistance	30 gn (duration = 18 ms) for half sine wave acceleration conforming to IEC 60068-2-27 50 gn (duration = 11 ms) for half sine wave acceleration conforming to IEC 60068-2-27

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	8.800 cm
Package 1 Width	3.400 cm
Package 1 Length	5.400 cm
Package 1 Weight	36.000 g
Unit Type Of Package 2	S03
Number Of Units In Package 2	150
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	5.870 kg
Unit Type Of Package 3	P06
Number Of Units In Package 3	1200
Package 3 Height	75.000 cm
Package 3 Width	60.000 cm
Package 3 Length	80.000 cm
Package 3 Weight	57.404 kg

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance

⊘	Reach Free Of Svhc	
⊘	Toxic Heavy Metal Free	
⊘	Mercury Free	
⊘	Rohs Exemption Information	Yes

Certifications & Standards

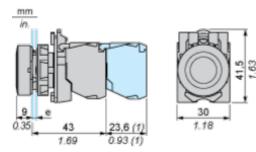
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information

13-Jun-2024

XB5AA51

Dimensions Drawings

Dimensions

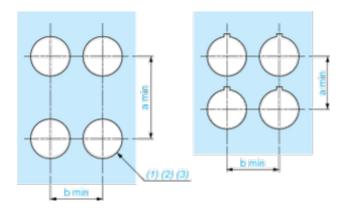


e: clamping thickness: 1 to 6 mm / 0.04 to 0.24 in. (1) Additional row of contacts or double contact

Mounting and Clearance

Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

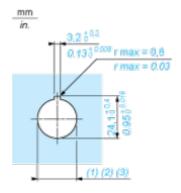
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (1) Diameter on finished panel or support
- (2) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.
- (3) Ø22.5 mm recommended (Ø22.3 $_0^{+0.4}$) / Ø0.89 in. recommended (Ø0.88 in. $_0^{+0.016}$)

				0
Connections	a in mm	a in in.	b in mm	b in in.
By screw clamp terminals or plug-in connector	40	1.57	30	1.18
By Faston connectors	45	1.77	32	1.26
On printed circuit board	30	1.18	30	1.18

Detail of Lug Recess



- (1) Diameter on finished panel or support
- (2) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.
- (3) Ø22.5 mm recommended (Ø22.3 $_0^{+0.4}$) / Ø0.89 in. recommended (Ø0.88 in. $_0^{+0.016}$)