Product datasheet

Specification





Complete push button, Harmony XB4, yellow pushbutton Ø22 mm, spring return, 1 NO, ATEX

XB4BP51EX

Price: 65,622.96 NGN

Main

Range of product	Harmony XB4	
Product or component type	Complete push-button	
Device short name	XB4	
Bezel material	Chromium plated metal	
Fixing collar material	Zamak	
Head type	Standard	
Mounting diameter	22 mm	
Sale per indivisible quantity	1	
Dust zone	Zone 21 - 22	
Type of operator	spring return	
Operator profile	Yellow projecting	
Operator additional information	Booted (clear silicon)	
Contacts type and composition	1 NO	

Complementary

Resistance to high pressure washer	7000000 Pa at 55 °C, distance : 0.1 m	
Device mounting	Fixing hole - diameter: 22.5 mm 22.3 +0.4/0 conforming to IEC 60947-1	
Fixing center	>= 30 x 40 mm (support panel)	
Embedding depth	43 mm	
marking	Ex tb IIIC	
Shape of signaling unit head	Round	
Contact operation	Slow-break	
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	5000000 cycles	
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	
Tightening torque	ning 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	V 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	
Electrical durability	1000000 cycles AC-15, 2 A at 230 V, operating rate <3600 cyc/h, load factor: 0.5	
	conforming to IEC 60947-5-1: appendix C	
	1000000 cycles AC-15, 3 A at 120 V, operating rate <3600 cyc/h, load factor: 0.5	
	conforming to IEC 60947-5-1: appendix C	
	1000000 cycles AC-15, 4 A at 24 V, operating rate <3600 cyc/h, load factor: 0.5	
	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: 0.5	
	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: 0.5	
	conforming to IEC 60947-5-1: appendix C	
Electrical reliability	Λ < 10exp(-6) at 5 V, 1 mA in clean environment conforming to IEC 60947-5-4	
	Λ < 10exp(-8) at 17 V, 5 mA in clean environment conforming to IEC 60947-5-4	
Environment	Λ < 10exp(-8) at 17 V, 5 mA in clean environment conforming to IEC 60947-5-4	

protective treatment	TH	
Ambient air temperature for storage	-4070 °C	
Ambient air temperature for operation	-4070 °C	
Overvoltage category	I conforming to IEC 60536	
IP degree of protection	IP66 conforming to IEC 60529 IP67	
NEMA degree of protection	ree of protection NEMA 13 NEMA 4X	
IK degree of protection	f protection IK03 conforming to IEC 50102	
Standards	EN 50014 EN 50281-1-1 IEC 61241-0 IEC 61241-1	
Directives	94/9/EC - ATEX directive	
Product certifications	ertifications GL DNV INERIS 04ATEX9004U	
Vibration resistance	on 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	4.0 cm
Package 1 Width	14.0 cm
Package 1 Length	20.0 cm
Package 1 Weight	94.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	30
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	3.196 kg

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance

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

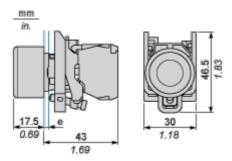
Certifications & Standards

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

3 Sept 2024

Dimensions Drawings

Pushbutton



e: support thickness: 1 to 6 mm / 0.04 to 0.24 in.

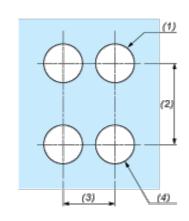
XB4BP51EX

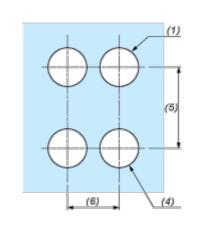
Mounting and Clearance

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

Connection by Faston Connectors





- (1) Diameter on finished panel or support
- (2) 40 mm min. / 1.57 in. min.
- (3) 30 mm min. / 1.18 in. min.
- (4) Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm $_0^{+0.4}$ / 0.88 in. $_0^{+0.016}$)
- (5) 45 mm min. / 1.78 in. min.
- (6) 32 mm min. / 1.26 in. min.