Product datasheet Characteristics

XB4BP581EX

yellow pushbutton \emptyset 22 - spring return - for insertion of legend - 1 NO - ATEX



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) for insertion of legend
Contacts type and composition	1 NO

Complementary

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) for insertion of legend
Contacts type and composition	1 NO
Complementary	7000000 Do at 55 °C. diatores 20.4 m
Complementary	
•	7000000 Pa at 55 °C, distance : 0.1 m
Resistance to high pressure washer Device mounting	Fixing hole - diameter: 22.5 mm 22.3 +0.4/0 conforming to EN/IEC 60947-1
Resistance to high pressure washer Device mounting Fixing center	Fixing hole - diameter: 22.5 mm 22.3 +0.4/0 conforming to EN/IEC 60947-1 >= 30 x 40 mm (support panel)
Resistance to high pressure washer Device mounting Fixing center Embedding depth	Fixing hole - diameter: 22.5 mm 22.3 +0.4/0 conforming to EN/IEC 60947-1
Resistance to high pressure washer Device mounting Fixing center Embedding depth Marking	Fixing hole - diameter: 22.5 mm 22.3 +0.4/0 conforming to EN/IEC 60947-1 >= 30 x 40 mm (support panel) 43 mm Ex tb IIIC
Resistance to high pressure washer Device mounting Fixing center Embedding depth Marking	Fixing hole - diameter: 22.5 mm 22.3 +0.4/0 conforming to EN/IEC 60947-1 >= 30 x 40 mm (support panel) 43 mm
Resistance to high pressure washer Device mounting Fixing center Embedding depth Marking Shape of signaling unit head	Fixing hole - diameter: 22.5 mm 22.3 +0.4/0 conforming to EN/IEC 60947-1 >= 30 x 40 mm (support panel) 43 mm Ex tb IIIC
Resistance to high pressure washer Device mounting Fixing center Embedding depth Marking Shape of signaling unit head Contact operation	Fixing hole - diameter: 22.5 mm 22.3 +0.4/0 conforming to EN/IEC 60947-1 >= 30 x 40 mm (support panel) 43 mm Ex tb IIIC Round
Resistance to high pressure washer Device mounting Fixing center Embedding depth Marking Shape of signaling unit head Contact operation Positive opening	Fixing hole - diameter: 22.5 mm 22.3 +0.4/0 conforming to EN/IEC 60947-1 >= 30 x 40 mm (support panel) 43 mm Ex tb IIIC Round Slow-break
Resistance to high pressure washer Device mounting Fixing center Embedding depth Marking Shape of signaling unit head Contact operation Positive opening Operating travel	Fixing hole - diameter: 22.5 mm 22.3 +0.4/0 conforming to EN/IEC 60947-1 >= 30 x 40 mm (support panel) 43 mm Ex tb IIIC Round Slow-break Without 2.6 mm (NO changing electrical state)
Resistance to high pressure washer Device mounting Fixing center Embedding depth Marking Shape of signaling unit head Contact operation Positive opening Operating travel Operating force	Fixing hole - diameter: 22.5 mm 22.3 +0.4/0 conforming to EN/IEC 60947-1 >= 30 x 40 mm (support panel) 43 mm Ex tb IIIC Round Slow-break Without 2.6 mm (NO changing electrical state) 4.3 mm (total travel)
Resistance to high pressure washer Device mounting Fixing center Embedding depth Marking Shape of signaling unit head Contact operation Positive opening Operating travel Operating force Mechanical durability	Fixing hole - diameter: 22.5 mm 22.3 +0.4/0 conforming to EN/IEC 60947-1 >= 30 x 40 mm (support panel) 43 mm Ex tb IIIC Round Slow-break Without 2.6 mm (NO changing electrical state) 4.3 mm (total travel) 3.8 N NO changing electrical state
Resistance to high pressure washer Device mounting Fixing center Embedding depth Marking Shape of signaling unit head Contact operation Positive opening Operating travel Operating force Mechanical durability Connections - terminals Tightening torque	Fixing hole - diameter: 22.5 mm 22.3 +0.4/0 conforming to EN/IEC 60947-1 >= 30 x 40 mm (support panel) 43 mm Ex tb IIIC Round Slow-break Without 2.6 mm (NO changing electrical state) 4.3 mm (total travel) 3.8 N NO changing electrical state 5000000 cycles Screw clamp terminals, <= 2 x 1.5 mm² with cable end conforming to EN/IEC 60947-1

	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 EN/IEC 60947-5-1	
[Ith] conventional free air thermal current	10 A conforming to EN/IEC 60947-5-1	
[Ui] rated insulation voltage	600 V (pollution degree 3) conforming to EN/IEC 60947-1	
[Uimp] rated impulse withstand voltage	6 kV EN/IEC 60947-1	
[le] rated operational current	3 A at 240 V, AC-15, A600 conforming to EN/IEC 60947-5-1 6 A at 120 V, AC-15, A600 conforming to EN/IEC 60947-5-1 0.1 A at 600 V, DC-13, Q600 conforming to EN/IEC 60947-5-1 0.27 A at 250 V, DC-13, Q600 conforming to EN/IEC 60947-5-1 0.55 A at 125 V, DC-13, Q600 conforming to EN/IEC 60947-5-1 1.2 A at 600 V, AC-15, A600 conforming to EN/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 EN/ 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 EN/ 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 EN/ 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 EN/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 EN/ IEC 60947-5-1: appendix C	
Electrical reliability	Λ < 10exp(-6) at 5 V, 1 mA in clean environment conforming to EN/IEC 60947-5-4 Λ < 10exp(-8) at 17 V, 5 mA in clean environment conforming to EN/IEC 60947-5-4	

Environment

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	NEMA 13 NEMA 4X
IK degree of 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	INERIS 04ATEX9004U GL DNV
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

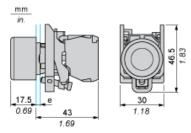
Contractual warranty

Warranty 18 months

Product datasheet Dimensions Drawings

XB4BP581EX

Pushbutton



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

Product datasheet Mounting and Clearance

XB4BP581EX

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
(2)	(5)

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