Product data sheet
Characteristics

XB4BC42EX
red pushbutton Ø 22 - spring return - 1 NC - ATEX

Main

Range of product	Harmony XB4
Product or component type	Complete pushbutton
Device short name	XB4
Bezel material	Chromium plated metal
Fixing collar material	Zamak
Mounting diameter	22 mm
Sale per indivisible quantity	1
Dust zone	Zone 21 - 22
Type of operator	Spring return
Operator profile	Red mushroom Ø 40 mm
Contacts type and composition	1 NC

Complementary

Resistance to high pressure washer	7000000 Pa at 55 °C at 0.1 m
Device mounting	Fixing hole Ø 22.5 mm (22.3 +0.4/0) conforming to EN/IEC 60947-1
Fixing center	>= 30 x 40 mm on support panel
Embedding depth	43 mm
Marking	Ex tb IIIC
Shape of signaling unit head	Round
Contacts operation	Slow-break
Positive opening	With conforming to EN/IEC 60947-5-1 : appendix K
Operating travel	4.3 mm (total travel) 1.5 mm (NC changing electrical state)
Operating force	3.5 N (NC changing electrical state)
Mechanical durability	5000000 cycles
Connections - terminals	Screw clamp terminals, clamping capacity: 1 x 0.22...2 x 2.5 mm² without cable end conforming to EN/IEC 60947-1 Screw clamp terminals, clamping capacity: <= 2 x 1.5 mm² with cable end conforming to EN/IEC 60947-1
Tightening torque	0.8...1.2 N.m conforming to EN 60947-1
Shape of screw head	Slotted head compatible with flat Ø 5.5 mm screwdriver Slotted head compatible with flat Ø 4 mm screwdriver Cross head compatible with pozidriv No 1 screwdriver Cross head compatible with Philips no 1 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 (degree of pollution: 3) conforming to EN/IEC 60947-1
[Uimp] rated impulse withstand voltage	6 kV conforming to EN/IEC 60947-1
[Ie] rated operational current	1.2 A at 600 V AC-15, A600 conforming to EN/IEC 60947-5-1 0.55 A at 125 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 0.1 A at 600 V DC-13, Q600 conforming to EN/IEC 60947-5-1 6 A at 120 V AC-15, A600 conforming to EN/IEC 60947-5-1 3 A at 240 V AC-15, A600 conforming to EN/IEC 60947-5-1

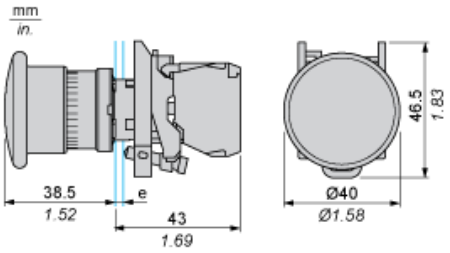
Electrical durability	1000000 cycles DC-13, 0.5 A at 24 V, operating rate: 3600 cyc/h, load factor: 0.5 conforming to EN/IEC 60947-5-1 : appendix C 1000000 cycles DC-13, 0.2 A at 110 V, operating rate: 3600 cyc/h, load factor: 0.5 conforming to EN/IEC 60947-5-1 : appendix C 1000000 cycles AC-15, 4 A at 24 V, operating rate: 3600 cyc/h, load factor: 0.5 conforming to EN/IEC 60947-5-1 : appendix C 1000000 cycles 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, 2 A at 230 V, operating rate: 3600 cyc/h, load factor: 0.5 conforming to EN/IEC 60947-5-1 : appendix C
Electrical reliability IEC 60947-5-4	Λ < 10exp(-8) at 17 V and 5 mA in clean environment conforming to EN/IEC 60947-5-4 Λ < 10exp(-6) at 5 V and 1 mA in clean environment conforming to EN/IEC 60947-5-4

Environment

Protective treatment	TH
Ambient air temperature for storage	-20...60 °C
Ambient air temperature for operation	-25...70 °C
Overvoltage category	I conforming to IEC 60536
IP degree of protection	IP65 conforming to IEC 60529
NEMA degree of protection	NEMA 4X NEMA 13
IK degree of protection	IK03 conforming to IEC 50102
Standards	IEC 61241-1 IEC 61241-0 EN 50281-1-1 EN 50014
Directives	94/9/EC - ATEX directive
Product certifications	DNV GL INERIS 04ATEX9004U
Vibration resistance	5 gn (f = 2...500 Hz) conforming to IEC 60068-2-6
Shock resistance	10 gn (duration = 11 ms) for half sine wave acceleration conforming to IEC 60068-2-27

XB4BC42EX

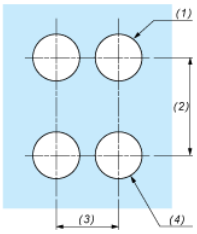
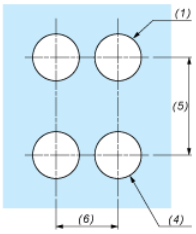
Emergency Stop



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

XB4BC42EX

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.	