



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 | Blue projecting |
| Operator additional information | Booted (clear silicon) |
| Contacts type and composition | 1 NO |

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 |
| 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, clamping capacity: <= 2 x 1.5 mm ² with cable end conforming to EN/IEC 60947-1 Screw clamp terminals, clamping capacity: 1 x 0.22...2 x 2.5 mm ² without 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 | Cross head compatible with Philips no 1 screwdriver Cross head compatible with pozidriv No 1 screwdriver Slotted head compatible with flat Ø 4 mm screwdriver Slotted head 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 |
| [I _{th}] conventional free air thermal current | 10 A conforming to EN/IEC 60947-5-1 |
| [U _i] rated insulation voltage | 600 V (degree of pollution: 3) conforming to EN/IEC 60947-1 |
| [U _{imp}] rated impulse withstand voltage | 6 kV conforming to EN/IEC 60947-1 |
| [I _e] 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 | $\Lambda < 10\text{exp}(-6)$ at 5 V and 1 mA in clean environment conforming to EN/IEC 60947-5-4 $\Lambda < 10\text{exp}(-8)$ at 17 V and 5 mA in clean environment conforming to EN/IEC 60947-5-4 |
|------------------------|---|

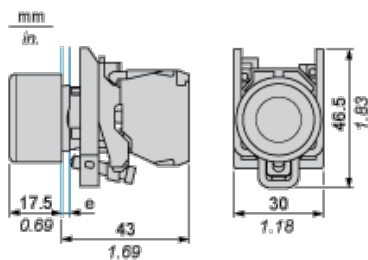
Environment

| | |
|---------------------------------------|--|
| protective treatment | TH |
| ambient air temperature for storage | -40...70 °C |
| ambient air temperature for operation | -40...70 °C |
| overvoltage category | I conforming to IEC 60536 |
| IP degree of protection | IP67 IP66 conforming to IEC 60529 |
| 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 | DNV GL INERIS 04ATEX9004U |
| vibration resistance | 5 gn (f = 2...500 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 period | 18 months 18 months |
|-----------------|---------------------|

Pushbutton



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

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) $\varnothing 22.5 \text{ mm} / 0.89 \text{ in. recommended } (\varnothing 22.3 \text{ mm}_0^{+0.4} / 0.88 \text{ in.}_0^{+0.016})$
- (5) 45 mm min. / 1.78 in. min.
- (6) 32 mm min. / 1.26 in. min.