



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              | Blue mushroom Ø 40 mm |
| Contacts type and composition | 1 NO                  |

Complementary

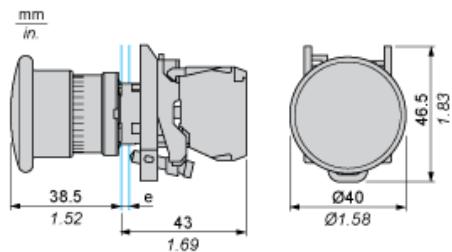
|  |  |
|--|--|
| Resistance to high pressure washer                       | 7000000 Pa at 55 °C at 0.1 m   |
| Device mounting  | Fixing hole Ø 22.5 mm (22.3 +0.4/0) conforming to EN/IEC 60947-1   |
| Fixing center  | >= 30 x 40 mm on support panel   |
| Embedding depth  | 43 mm  |
| Marking  | Ex tb IIIC   |
| Shape of signaling unit head                             | Round  |
| Contacts operation                                       | Slow-break   |
| Positive opening   | Without  |
| Operating travel   | 4.3 mm (total travel)<br>2.6 mm (NO changing electrical state)   |
| Operating force  | 3.8 N (NO changing electrical state)   |
| Mechanical durability                                    | 5000000 cycles   |
| Connections - terminals                                  | Screw clamp terminals, clamping capacity: 1 x 0.22...2 x 2.5 mm <sup>2</sup> without cable end conforming to EN/IEC 60947-1<br>Screw clamp terminals, clamping capacity: <= 2 x 1.5 mm <sup>2</sup> 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<br>Slotted head compatible with flat Ø 4 mm screwdriver<br>Cross head compatible with pozidriv No 1 screwdriver<br>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   |
| [I <sub>th</sub> ] conventional free air thermal current | 10 A conforming to EN/IEC 60947-5-1  |
| [U <sub>i</sub> ] rated insulation voltage               | 600 V (degree of pollution: 3) conforming to EN/IEC 60947-1  |
| [U <sub>imp</sub> ] rated impulse withstand voltage      | 6 kV conforming to EN/IEC 60947-1  |
| [I <sub>e</sub> ] rated operational current              | 1.2 A at 600 V AC-15, A600 conforming to EN/IEC 60947-5-1<br>0.55 A at 125 V DC-13, Q600 conforming to EN/IEC 60947-5-1<br>0.27 A at 250 V DC-13, Q600 conforming to EN/IEC 60947-5-1<br>0.1 A at 600 V DC-13, Q600 conforming to EN/IEC 60947-5-1<br>6 A at 120 V AC-15, A600 conforming to EN/IEC 60947-5-1<br>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<br>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<br>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<br>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<br>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 | $\Delta < 10\exp(-8)$ at 17 V and 5 mA in clean environment conforming to EN/IEC 60947-5-4<br>$\Delta < 10\exp(-6)$ 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   |
| Oversupply category                   | I conforming to IEC 60536   |
| IP degree of protection               | IP65 conforming to IEC 60529  |
| NEMA degree of protection             | NEMA 4X<br>NEMA 13  |
| IK degree of protection               | IK03 conforming to IEC 50102  |
| Standards                             | IEC 61241-1<br>IEC 61241-0<br>EN 50281-1-1<br>EN 50014                                |
| Directives                            | 94/9/EC - ATEX directive  |
| Product certifications                | DNV<br>GL<br>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 |

Emergency Stop



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