

# Product datasheet

Specifications



red Emergency stop Ø 22 -  
mushroom head Ø 40 - turn to  
release - ATEX

XB4BS8445EX

## Main

|                               |                                        |
|-------------------------------|----------------------------------------|
| Range of product              | Harmony XB4                            |
| Product or component type     | Complete emergency stop 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              | trigger action and mechanical latching |
| Reset                         | Turn to release                        |
| Operator profile              | Red mushroom Ø 40 mm                   |
| Contacts type and composition | 1 NO + 1 NC                            |

## Complementary

|                              |                                                                                                                                                                    |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Device mounting              | Fixing hole - diameter: 22.5 mm 22.3 +0.4/0                                                                                                                        |
| Fixing center                | >= 30 x 40 mm (support panel)                                                                                                                                      |
| Fixing mode                  | Screw-fixed: 0.8...1.2 N.m                                                                                                                                         |
| Embedding depth              | 43 mm                                                                                                                                                              |
| Marking                      | Ex tb IIIC                                                                                                                                                         |
| Shape of signaling unit head | Round                                                                                                                                                              |
| Contact operation            | Slow-break                                                                                                                                                         |
| Contacts usage               | Standard                                                                                                                                                           |
| Positive opening             | With conforming to EN/IEC 60947-5-1 appendix K                                                                                                                     |
| Operating travel             | 1.5 mm (NC changing electrical state)<br>4.3 mm (total travel)                                                                                                     |
| Mechanical durability        | 300000 cycles                                                                                                                                                      |
| Connections - terminals      | Screw clamp terminals, <= 2 x 1.5 mm² with cable end conforming to EN 60947-1<br>Screw clamp terminals, >= 1 x 0.22 mm² without cable end conforming to EN 60947-1 |
| Tightening torque            | 0.8...1.2 N.m conforming to EN 60947-1                                                                                                                             |

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Shape of screw head                         | Cross compatible with Philips no 1 screwdriver<br>Cross compatible with pozidriv No 1 screwdriver<br>Slotted compatible with flat Ø 4 mm screwdriver<br>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 60947-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| [Uimp] rated impulse withstand voltage      | 6 kV conforming to EN 60947-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| [Ie] rated operational current              | 3 A at 240 V, AC-15, A600 conforming to EN/IEC 60947-5-1<br>6 A at 120 V, AC-15, A600 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>0.27 A at 250 V, DC-13, Q600 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>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<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, 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 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 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, 1 mA in clean environment conforming to EN/IEC 60947-5-4<br>$\Lambda < 10\text{exp}(-8)$ at 17 V, 5 mA in clean environment conforming to EN/IEC 60947-5-4                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

## Environment

|                                       |                                                                                                                                                                                |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective treatment                  | TH                                                                                                                                                                             |
| Ambient air temperature for operation | -40...70 °C                                                                                                                                                                    |
| Overvoltage category                  | I conforming to IEC 60536                                                                                                                                                      |
| IP degree of protection               | IP66 conforming to IEC 60529<br>IP69<br>IP69K                                                                                                                                  |
| IK degree of protection               | IK06                                                                                                                                                                           |
| Standards                             | EN/IEC 60947-5-5<br>EN 60079-0:2009<br>EN 60079-31:2009<br>EN 61000-6-2<br>EN/ISO 13850<br>IEC 60079-0:2007<br>IEC 60079-31:2008                                               |
| Directives                            | 94/9/EC - ATEX directive                                                                                                                                                       |
| Product certifications                | 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<br>50 gn (duration = 11 ms) for half sine wave acceleration conforming to IEC 60068-2-27 |

## Packing Units

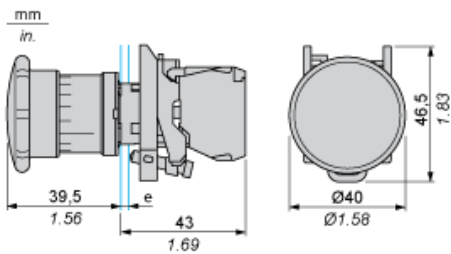
|                              |         |
|------------------------------|---------|
| Unit Type of Package 1       | PCE     |
| Number of Units in Package 1 | 1       |
| Package 1 Height             | 4.0 cm  |
| Package 1 Width              | 11.0 cm |
| Package 1 Length             | 15.0 cm |
| Package 1 Weight             | 143.0 g |
| Unit Type of Package 2       | S02     |

|                              |          |
|------------------------------|----------|
| Number of Units in Package 2 | 20       |
| Package 2 Height             | 15.0 cm  |
| Package 2 Width              | 30.0 cm  |
| Package 2 Length             | 40.0 cm  |
| Package 2 Weight             | 3.171 kg |

Offer Sustainability

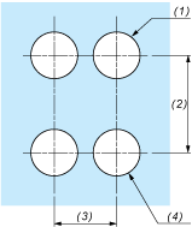
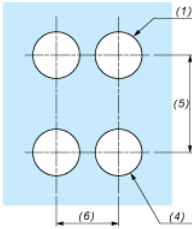
|                            |                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                       |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                                           |
| REACH free of SVHC         | Yes                                                                                                                         |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)<br><a href="#">EU RoHS Declaration</a>                           |
| Toxic heavy metal free     | Yes                                                                                                                         |
| Mercury free               | Yes                                                                                                                         |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a>                                                                                      |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                         |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                                               |
| Circularity Profile        | <a href="#">End of Life Information</a>                                                                                     |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

Emergency Stop Pushbutton

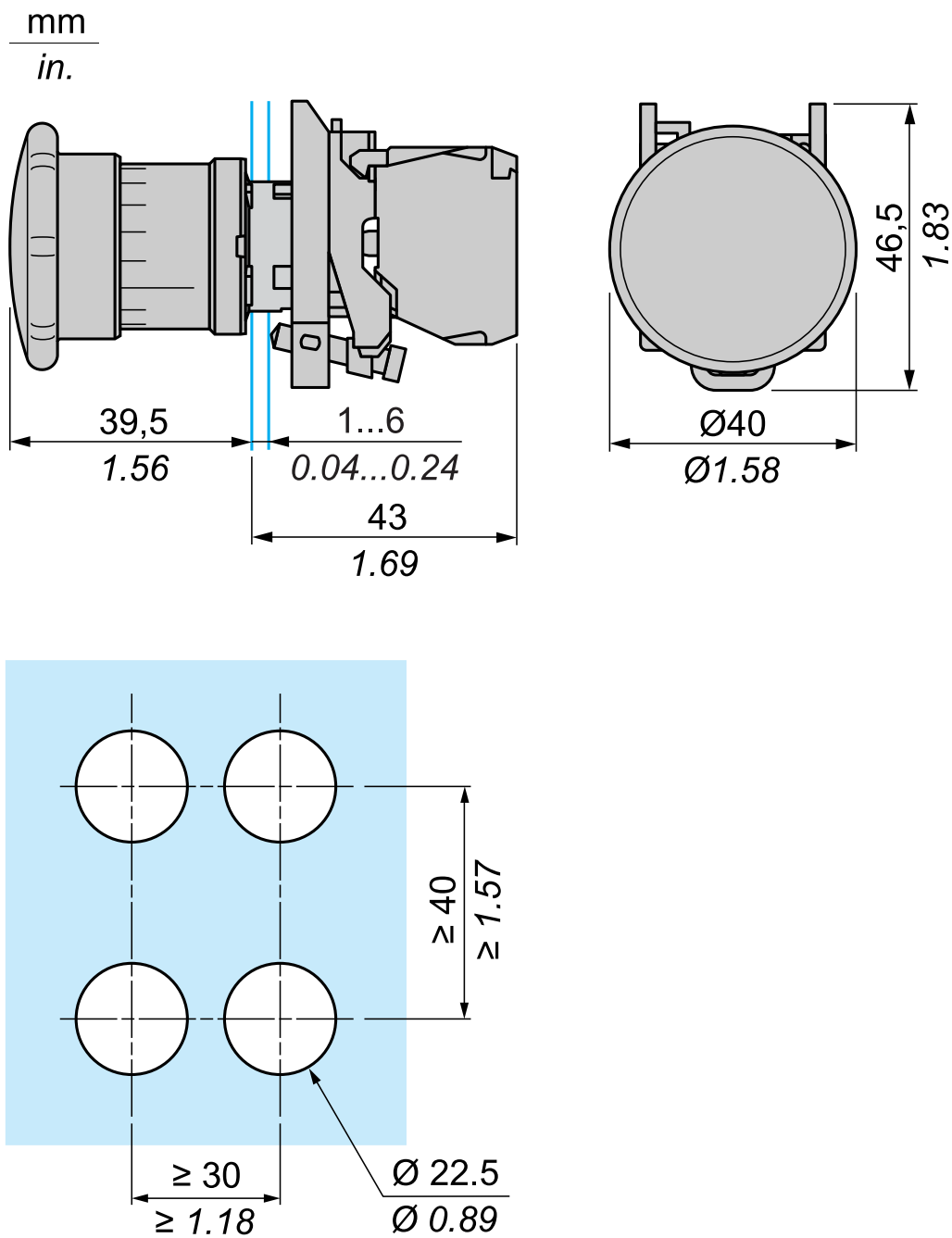


e :        clamping thickness: 1 to 6 mm / 0.04 to 0.24 in.

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                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| <div><div>(1)</div><div>Diameter on finished panel or support</div></div> <div><div>(2)</div><div>40 mm min. / 1.57 in. min.</div></div> <div><div>(3)</div><div>30 mm min. / 1.18 in. min.</div></div> <div><div>(4)</div><div>Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm<sub>0</sub><sup>+0.4</sup> / 0.88 in.<sub>0</sub><sup>+0.016</sup>)</div></div> <div><div>(5)</div><div>45 mm min. / 1.78 in. min.</div></div> <div><div>(6)</div><div>32 mm min. / 1.26 in. min.</div></div> |                                                                                    |

Dimensions



Recommended replacement(s)