

# XB4BP42

Push button, metal, projecting, red, Ø22, spring return, booted, unmarked, 1 NC



## Main

|                                 |                                                                                                                                                                                                                              |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range of product                | Harmony XB4                                                                                                                                                                                                                  |
| Product or component type       | Push-button                                                                                                                                                                                                                  |
| Device short name               | XB4                                                                                                                                                                                                                          |
| Product compatibility           | Not compatible with legend holder                                                                                                                                                                                            |
| Bezel material                  | Chromium plated metal                                                                                                                                                                                                        |
| Fixing collar material          | Zamak                                                                                                                                                                                                                        |
| Mounting diameter               | 22 mm                                                                                                                                                                                                                        |
| Sale per indivisible quantity   | 1                                                                                                                                                                                                                            |
| Shape of signaling unit head    | Round                                                                                                                                                                                                                        |
| Type of operator                | spring return                                                                                                                                                                                                                |
| Operator profile                | Red projecting, unmarked                                                                                                                                                                                                     |
| Head type                       | Standard                                                                                                                                                                                                                     |
| Operator additional information | Clear boot                                                                                                                                                                                                                   |
| Contacts type and composition   | 1 NC                                                                                                                                                                                                                         |
| Contact operation               | Slow-break                                                                                                                                                                                                                   |
| Connections - terminals         | Screw clamp terminals, $\leq 2 \times 1.5 \text{ mm}^2$ with cable end conforming to EN/IEC 60947-1<br>Screw clamp terminals, $1 \times 0.22 \dots 2 \times 2.5 \text{ mm}^2$ without cable end conforming to EN/IEC 60947-1 |

## Complementary

|                                    |                                       |
|------------------------------------|---------------------------------------|
| Height                             | 47 mm                                 |
| Width                              | 30 mm                                 |
| Depth                              | 61 mm                                 |
| Terminals description ISO n°1      | (21-22)NC                             |
| Net weight                         | 0.082 kg                              |
| Resistance to high pressure washer | 7000000 Pa at 55 °C, distance : 0.1 m |
| Contacts usage                     | Standard contacts                     |

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Operating force                             | 3.5 N NC changing electrical state                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Mechanical durability                       | 10000000 cycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 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/IEC 60947-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| [Uimp] rated impulse withstand voltage      | 6 kV EN/IEC 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                      | $\Lambda < 10\exp(-6)$ at 5 V and 1 mA in clean environment conforming to EN/IEC 60947-5-4<br>$\Lambda < 10\exp(-8)$ at 17 V and 5 mA in clean environment conforming to EN/IEC 60947-5-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Device presentation                         | Complete product                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## Environment

|                                       |                                                                                                                                         |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Protective treatment                  | TH                                                                                                                                      |
| Ambient air temperature for storage   | -40...70 °C                                                                                                                             |
| Ambient air temperature for operation | -40...70 °C                                                                                                                             |
| Overvoltage category                  | Class I conforming to IEC 60536                                                                                                         |
| IP degree of protection               | IP66 conforming to IEC 60529<br>IP67                                                                                                    |
| NEMA degree of protection             | NEMA 13<br>NEMA 4X                                                                                                                      |
| IK degree of protection               | IK06 conforming to IEC 50102                                                                                                            |
| Standards                             | CSA C22.2 No 14<br>EN/IEC 60947-5-1<br>EN/IEC 60947-1<br>JIS C8201-5-1<br>UL 508<br>EN/IEC 60947-5-5<br>EN/IEC 60947-5-4<br>JIS C8201-1 |
| Product certifications                | CSA<br>DNV<br>RINA<br>LROS (Lloyds register of shipping)<br>UL listed<br>BV<br>GL                                                       |
| 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                                                   |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Weight             | 82 g      |
| Package 1 Height             | 3.4 cm    |
| Package 1 width              | 5.4 cm    |
| Package 1 Length             | 8.8 cm    |
| Unit Type of Package 2       | BB1       |
| Number of Units in Package 2 | 5         |
| Package 2 Weight             | 410 g     |
| Package 2 Height             | 3.4 cm    |
| Package 2 width              | 8.8 cm    |
| Package 2 Length             | 26.5 cm   |
| Unit Type of Package 3       | S03       |
| Number of Units in Package 3 | 150       |
| Package 3 Weight             | 12.997 kg |
| Package 3 Height             | 30 cm     |
| Package 3 width              | 30 cm     |
| Package 3 Length             | 40 cm     |

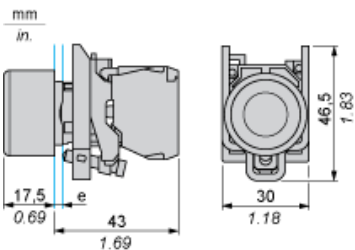
## Offer Sustainability

|                            |                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                                                         |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                         |
| China RoHS Regulation      | <a href="#">China RoHS declaration</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 |

## Contractual warranty

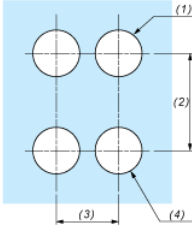
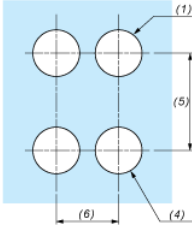
|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Dimensions



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>(2)</div><div>40 mm min. / 1.57 in. min.</div><div>(3)</div><div>30 mm min. / 1.18 in. min.</div><div>(4)</div><div>Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm <math>_0^{+0.4}</math> / 0.88 in. <math>_0^{+0.016}</math>)</div><div>(5)</div><div>45 mm min. / 1.78 in. min.</div><div>(6)</div><div>32 mm min. / 1.26 in. min.</div></div> |                                                                                    |