

## Main

|                               |                                                                                                                                                                                                    |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Commercial Status             | Commercialised                                                                                                                                                                                     |
| Range of product              | Harmony XB5                                                                                                                                                                                        |
| Product or component type     | Complete selector switch                                                                                                                                                                           |
| Device short name             | XB5                                                                                                                                                                                                |
| Bezel material                | Plastic                                                                                                                                                                                            |
| Mounting diameter             | 22 mm                                                                                                                                                                                              |
| Sale per indivisible quantity | 1                                                                                                                                                                                                  |
| Shape of signaling unit head  | Round                                                                                                                                                                                              |
| Type of operator              | Spring return to centre                                                                                                                                                                            |
| Operator profile              | Black long handle                                                                                                                                                                                  |
| Operator position information | 3 positions +/- 45°                                                                                                                                                                                |
| Contacts type and composition | 2 NO                                                                                                                                                                                               |
| Contacts operation            | Slow-break                                                                                                                                                                                         |
| Connections - terminals       | Screw clamp terminals: >= 1 x 0.22 mm <sup>2</sup> without cable end conforming to EN/IEC 60947-1<br>Screw clamp terminals: <= 2 x 1.5 mm <sup>2</sup> with cable end conforming to EN/IEC 60947-1 |

## Complementary

|                                                          |                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Height                                                   | 48 mm                                                                                                                                                                                                                                                                                                                                                                          |
| Width                                                    | 30 mm                                                                                                                                                                                                                                                                                                                                                                          |
| Depth                                                    | 70 mm                                                                                                                                                                                                                                                                                                                                                                          |
| Terminals description ISO n°1                            | (13-14)NO                                                                                                                                                                                                                                                                                                                                                                      |
| Product weight                                           | 0.053 kg                                                                                                                                                                                                                                                                                                                                                                       |
| Resistance to high pressure washer                       | 7000000 Pa at 55 °C, distance: 0.1 m                                                                                                                                                                                                                                                                                                                                           |
| Contacts usage                                           | Standard contacts                                                                                                                                                                                                                                                                                                                                                              |
| Positive opening                                         | Without positive opening                                                                                                                                                                                                                                                                                                                                                       |
| Operating torque                                         | 0.14 N.m (NO changing electrical state)                                                                                                                                                                                                                                                                                                                                        |
| Mechanical durability                                    | 1000000 cycles                                                                                                                                                                                                                                                                                                                                                                 |
| 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 60947-1                                                                                                                                                                                                                                                                                                                        |
| [U <sub>imp</sub> ] rated impulse withstand voltage      | 6 kV conforming to EN 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 | $\Lambda < 10\exp(-8)$ at 17 V, 5 mA in clean environment conforming to EN/IEC 60947-5-4<br>$\Lambda < 10\exp(-6)$ at 5 V, 1 mA in clean environment conforming to EN/IEC 60947-5-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

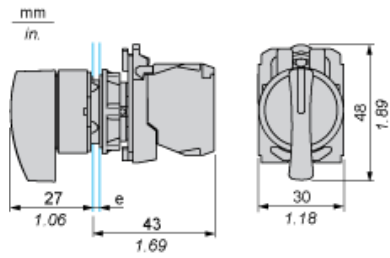
## Environment

|                                            |                                                                                                                                                      |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective treatment                       | TH                                                                                                                                                   |
| Ambient air temperature for storage        | -40...70 °C                                                                                                                                          |
| Ambient air temperature for operation      | -25...70 °C                                                                                                                                          |
| Class of protection against electric shock | Class II conforming to IEC 60536                                                                                                                     |
| IP degree of protection                    | IP69 K conforming to IEC 60529                                                                                                                       |
| NEMA degree of protection                  | NEMA 4X<br>NEMA 13                                                                                                                                   |
| IK degree of protection                    | IK06 conforming to IEC 50102                                                                                                                         |
| Standards                                  | CSA C22-2 No 14<br>EN/IEC 60947-1<br>EN/IEC 60947-5-1<br>EN/IEC 60947-5-4<br>JIS C 4520<br>UL 508                                                    |
| Product certifications                     | BV<br>CSA<br>DNV<br>GL<br>LROS (Lloyds register of shipping)<br>RINA<br>UL                                                                           |
| Vibration resistance                       | 5 gn (f = 2...500 Hz) conforming to IEC 60068-2-6                                                                                                    |
| Shock resistance                           | 50 gn for 11 ms half sine wave acceleration conforming to IEC 60068-2-27<br>30 gn for 18 ms half sine wave acceleration conforming to IEC 60068-2-27 |

## Contractual warranty

|        |           |
|--------|-----------|
| Period | 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



- (1) Diameter on finished panel or support
- (2) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.
- (3)  $\varnothing 22.5$  mm recommended ( $\varnothing 22.3 \text{ }_0^{+0.4}$ ) /  $\varnothing 0.89$  in. recommended ( $\varnothing 0.88 \text{ in. }_0^{+0.016}$ )

| Connections                                   | a in mm | a in in. | b in mm | b in in. |
|-----------------------------------------------|---------|----------|---------|----------|
| By screw clamp terminals or plug-in connector | 40      | 1.57     | 30      | 1.18     |
| By Faston connectors                          | 45      | 1.77     | 32      | 1.26     |
| On printed circuit board                      | 30      | 1.18     | 30      | 1.18     |

Detail of Lug Recess



- (1) Diameter on finished panel or support
- (2) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.
- (3)  $\varnothing 22.5$  mm recommended ( $\varnothing 22.3 \text{ }_0^{+0.4}$ ) /  $\varnothing 0.89$  in. recommended ( $\varnothing 0.88 \text{ in. }_0^{+0.016}$ )