



## Main

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|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range of product              | Harmony XB7                                                                                                                                                                                              |
| Product or component type     | Monolithic pushbutton                                                                                                                                                                                    |
| Device short name             | XB7                                                                                                                                                                                                      |
| Mounting diameter             | 22 mm                                                                                                                                                                                                    |
| Sale per indivisible quantity | 10                                                                                                                                                                                                       |
| IP degree of protection       | IP65 (front face) conforming to IEC 60529<br>IP20 (rear face) conforming to IEC 60529                                                                                                                    |
| Shape of signaling unit head  | Round                                                                                                                                                                                                    |
| Type of operator              | Spring return                                                                                                                                                                                            |
| Operator profile              | Black flush, white down arrow                                                                                                                                                                            |
| Contacts type and composition | 1 NC + 1 NO                                                                                                                                                                                              |
| Connections - terminals       | Screw clamp terminals: 1 x 0.34...2 x 2.5 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

|                                        |                                                                                                                                                                                                                                                                                  |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAD overall width                      | 29 mm                                                                                                                                                                                                                                                                            |
| CAD overall height                     | 29 mm                                                                                                                                                                                                                                                                            |
| CAD overall depth                      | 51.5 mm                                                                                                                                                                                                                                                                          |
| Terminals description ISO n°1          | (13-14)NO<br>(21-22)NC                                                                                                                                                                                                                                                           |
| Product weight                         | 0.021 kg                                                                                                                                                                                                                                                                         |
| 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, plastic, thickness: 2...6 mm<br>≥ 30 x 40 mm on support panel, metal, thickness: 1...6 mm                                                                                                                                                         |
| Fixing mode                            | Fixing nut beneath head recommended torque: 2.2 N.m (+/- 0.2 N.m)                                                                                                                                                                                                                |
| Contacts operation                     | Slow-break                                                                                                                                                                                                                                                                       |
| Positive opening                       | With NC contact positive opening conforming to EN/IEC 60947-5-1 appendix K                                                                                                                                                                                                       |
| 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<br>Cross head compatible with JIS No 1 screwdriver |
| Short circuit protection               | 4 A cartridge fuse type gG conforming to EN/IEC 60947-5-1                                                                                                                                                                                                                        |
| [Ui] rated insulation voltage          | 250 V (degree of pollution: 3) conforming to EN/IEC 60947-1                                                                                                                                                                                                                      |
| [Uimp] rated impulse withstand voltage | 4 kV conforming to EN/IEC 60947-1                                                                                                                                                                                                                                                |
| [Ie] rated operational current         | 0.6 A at 120 V, AC-14, D300 conforming to EN/IEC 60947-5-1<br>0.3 A at 240 V, AC-14, D300 conforming to EN/IEC 60947-5-1<br>0.22 A at 125 V, DC-13, R300 conforming to EN/IEC 60947-5-1<br>0.1 A at 250 V, DC-13, R300 conforming to EN/IEC 60947-5-1                            |
| Electrical reliability IEC 60947-5-4   | Λ ≤ 10exp(-6) at 17 V, 5 mA 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 61140                                                                                                                                               |
| NEMA degree of protection                  | NEMA 3 conforming to UL 50 E<br>NEMA 12 conforming to UL 50 E                                                                                                                  |
| Standards                                  | EN/IEC 60947-1<br>EN/IEC 60947-5-1<br>JIS C 4520<br>UL 508<br>CSA C22.2 No 14                                                                                                  |
| Product certifications                     | CCC<br>GOST                                                                                                                                                                    |
| 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 |

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Pushbutton, Flush Type

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Dimensions



- e Support panel thickness: 1 to 6 mm/0.4 to 0.24 in. (metal), 2 to 6 mm/0.8 to 0.24 in. (plastic).

## Mounting

### Diameter of Finished Fixing Holes



- (1) Minimum value.
- (2) 40 mm/1.58 in. for Emergency switching off pushbutton only.
- (3) Standard value:  $\varnothing 22.3$  (0; + 0.4) mm/ $\varnothing 0.88$  (0; + 0.02) in.

### "U" Type Tag Connection



- (1) 6.5 mm/0.26 in. recommended, 7 mm/0.28 in. max.
- (2) M3 screw clamp terminal.

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Wiring

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