

# Product data sheet

Specifications



Harmony XB7, Monolithic push button, plastic, blue, Ø22, spring return, unmarked, 1 NO + 1 NC

XB7NA65

## Main

|                               |   |
|-------------------------------|---|
| Range of product              | Harmony XB7   |
| Product or component type     | Push-button   |
| Device short name             | XB7   |
| Mounting diameter             | 22 mm   |
| Sale per indivisible quantity | 10  |
| IP degree of protection       | IP20 (rear face) conforming to IEC 60529<br>IP65 (front face) conforming to IEC 60529   |
| Shape of signaling unit head  | Round   |
| Type of operator              | spring return   |
| Operator profile              | Blue flush, unmarked  |
| Contacts type and composition | 1 NO + 1 NC   |
| 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, $1 \times 0.34\dots 2 \times 2.5 \text{ mm}^2$ without cable end conforming to EN/IEC 60947-1 |
| Device presentation           | Monolithic product  |

## Complementary

|                               |  |
|-------------------------------|--|
| CAD overall width             | 29 mm  |
| CAD overall height            | 29 mm  |
| CAD overall depth             | 51.5 mm  |
| Terminals description ISO n°1 | (21-22)NC<br>(13-14)NO   |
| Net weight                    | 0.021 kg   |
| Device mounting               | Fixing hole - diameter: 22.5 mm 22.3 +0.4/0 conforming to EN/IEC 60947-1   |
| Fixing center                 | $\geq 30 \times 40 \text{ mm}$ (support panel) metal - thickness: 1...6 mm<br>$\geq 30 \times 40 \text{ mm}$ (support panel) plastic - thickness: 2...6 mm |
| Fixing mode                   | Fixing nut beneath head: 2...2.4 N.m   |
| Contact operation             | Slow-break   |
| Positive opening              | With NC contact 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           | Cross compatible with JIS No 1 screwdriver<br>Cross compatible with Philips no 1 screwdriver<br>Cross compatible with pozidriv No 1 screwdriver            |

Slotted compatible with flat Ø 4 mm screwdriver  
Slotted compatible with flat Ø 5.5 mm screwdriver

|   |   |
|---|---|
| <b>Short-circuit protection</b>               | 4 A cartridge fuse type gG conforming to EN/IEC 60947-5-1   |
| <b>[Ui] rated insulation voltage</b>          | 250 V (pollution degree 3) conforming to EN/IEC 60947-1   |
| <b>[Uimp] rated impulse withstand voltage</b> | 4 kV conforming to EN/IEC 60947-1   |
| <b>[Ie] rated operational current</b>         | 0.1 A at 250 V, DC-13, R300 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>0.3 A at 240 V, AC-14, D300 conforming to EN/IEC 60947-5-1<br>0.6 A at 120 V, AC-14, D300 conforming to EN/IEC 60947-5-1   |
| <b>Electrical durability</b>                  | 1000000 cycles, DC-13, 0.3 A at 24 V, operating rate <216000 cyc/mn, load factor: 0.5 conforming to EN/IEC 60947-5-1 appendix C<br>1000000 cycles, AC-15, 0.03 A at 230 V, operating rate <216000 cyc/mn, load factor: 0.5 conforming to EN/IEC 60947-5-1 appendix C<br>1000000 cycles, AC-15, 0.09 A at 240 V, operating rate <108000 cyc/mn, load factor: 0.5 conforming to EN/IEC 60947-5-1 appendix C |
| <b>Electrical reliability</b>                 | $\Lambda \leq 10 \exp(-6)$ at 17 V, 5 mA conforming to EN/IEC 60947-5-4   |

## Environment

|  |  |
|--|--|
| <b>Protective treatment</b>                  | TH   |
| <b>Ambient air temperature for storage</b>   | -40...70 °C  |
| <b>Ambient air temperature for operation</b> | -25...70 °C  |
| <b>Overvoltage category</b>                  | Class II conforming to IEC 61140   |
| <b>NEMA degree of protection</b>             | NEMA 12 conforming to UL 50 E<br>NEMA 3 conforming to UL 50 E  |
| <b>Standards</b>                             | CSA C22.2 No 14<br>EN/IEC 60947-1<br>JIS C8201-5-1<br>EN/IEC 60947-5-1<br>UL 508<br>JIS C8201-1  |
| <b>Product certifications</b>                | CCC<br>GOST  |
| <b>Vibration resistance</b>                  | 5 gn (f= 2...500 Hz) conforming to IEC 60068-2-6   |
| <b>Shock resistance</b>                      | 50 gn (duration = 11 ms) for half sine wave acceleration conforming to IEC 60068-2-27<br>30 gn (duration = 18 ms) for half sine wave acceleration conforming to IEC 60068-2-27 |

## Packing Units

|                                     |        |
|-------------------------------------|--------|
| <b>Unit Type of Package 1</b>       | PCE    |
| <b>Number of Units in Package 1</b> | 1      |
| <b>Package 1 Weight</b>             | 20 g   |
| <b>Package 1 Height</b>             | 5.3 cm |
| <b>Package 1 width</b>              | 3 cm   |
| <b>Package 1 Length</b>             | 3 cm   |

## Offer Sustainability

|                                   |   |
|-----------------------------------|---|
| <b>Sustainable offer status</b>   | Green Premium product   |
| <b>REACH Regulation</b>           | <a href="#">REACH Declaration</a>   |
| <b>EU RoHS Directive</b>          | Pro-active compliance (Product out of EU RoHS legal scope)<br><a href="#">EU RoHS Declaration</a> |
| <b>Toxic heavy metal free</b>     | Yes   |
| <b>Mercury free</b>               | Yes   |
| <b>RoHS exemption information</b> | <a href="#">Yes</a>   |

|                                  |   |
|----------------------------------|---|
| <b>China RoHS Regulation</b>     | <a href="#">China RoHS declaration</a>  |
| <b>Environmental Disclosure</b>  | <a href="#">Product Environmental Profile</a>   |
| <b>Circularity Profile</b>       | <a href="#">End of Life Information</a>   |
| <b>WEEE</b>                      | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins   |
| <b>California proposition 65</b> | WARNING: This product can expose you to chemicals including: Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |

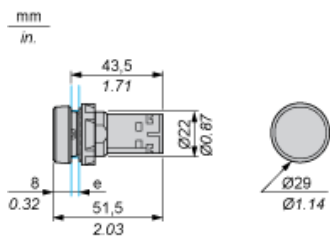
## Contractual warranty

|                 |           |
|-----------------|-----------|
| <b>Warranty</b> | 18 months |
|-----------------|-----------|

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**

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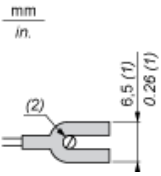
**Diameter of Finished Fixing Holes**



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

**“U” Type Tag Connection**

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

**Wiring**

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