

# Product datasheet

Specifications



Push button, Harmony XB7, round yellow flush, 22mm, spring return, 1NO, unmarked

XB7NA81

## 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              | Yellow flush, unmarked   |
| Contacts type and composition | 1 NO   |
| Connections - terminals       | Screw clamp terminals, $\leq 2 \times 1.5 \text{ mm}^2$ with cable end conforming to IEC 60947-1<br>Screw clamp terminals, $1 \times 0.34 \dots 2 \times 2.5 \text{ mm}^2$ without cable end conforming to 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 | (13-14)NO   |
| net weight                    | 0.021 kg  |
| Device mounting               | Fixing hole - diameter: 22.5 mm 22.3 +0.4/0 conforming to 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 (only NO)  |
| Mechanical durability         | 1000000 cycles  |
| Tightening torque             | 0.8...1.2 N.m conforming to IEC 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<br>Slotted compatible with flat $\varnothing 4 \text{ mm}$ screwdriver<br>Slotted compatible with flat $\varnothing 5.5 \text{ mm}$ screwdriver |

|   |  |
|---|--|
| <b>Short-circuit protection</b>               | 4 A cartridge fuse type gG conforming to IEC 60947-5-1   |
| <b>[Ui] rated insulation voltage</b>          | 250 V (pollution degree 3) conforming to IEC 60947-1   |
| <b>[Uimp] rated impulse withstand voltage</b> | 4 kV conforming to IEC 60947-1   |
| <b>[Ie] rated operational current</b>         | 0.1 A at 250 V, DC-13, R300 conforming to IEC 60947-5-1<br>0.22 A at 125 V, DC-13, R300 conforming to IEC 60947-5-1<br>0.3 A at 240 V, AC-14, D300 conforming to IEC 60947-5-1<br>0.6 A at 120 V, AC-14, D300 conforming to 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 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 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 IEC 60947-5-1 appendix C |
| <b>Electrical reliability</b>                 | $\Lambda \leq 10\exp(-6)$ at 17 V, 5 mA conforming to 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>JIS C8201-5-1<br>UL 508<br>IEC 60947-1<br>IEC 60947-5-1<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 Height</b>             | 3.0 cm  |
| <b>Package 1 Width</b>              | 12.0 cm |
| <b>Package 1 Length</b>             | 12.0 cm |
| <b>Package 1 Weight</b>             | 20.0 g  |

## Contractual warranty

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

## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

## Well-being performance

Toxic Heavy Metal Free

Mercury Free

Rohs Exemption Information Yes

## Certifications & Standards

Reach Regulation [REACH Declaration](#)

Eu Rohs Directive Pro-active compliance (Product out of EU RoHS legal scope)  
[EU RoHS Declaration](#)

China Rohs Regulation [China RoHS declaration](#)

Environmental Disclosure [Product Environmental Profile](#)

Weee The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

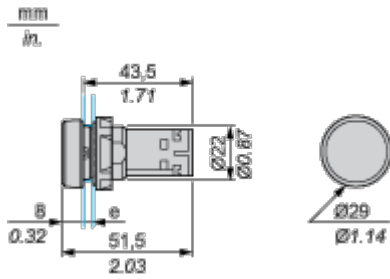
Circularity Profile [End of Life Information](#)

Dimensions Drawings

Pushbutton, Flush Type

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Dimensions



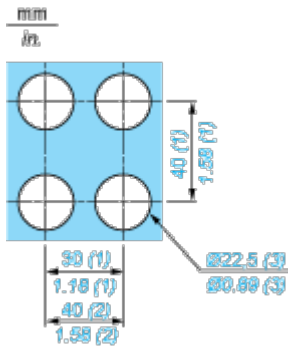
e Support panel thickness: 1 to 6 mm/0.4 to 0.24 in. (metal), 2 to 6 mm/0.8 to 0.24 in. (plastic).

Mounting and Clearance

Mounting

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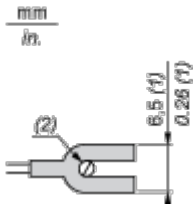
Diameter of Finished Fixing Holes



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

**“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.

Connections and Schema

Wiring Diagram

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