

## Product data sheet

### Characteristics

# XB7NH21

Push button, Harmony XB7, black flush  
pushbutton Ø22 mm, push to release, 1 NO,  
screw clamp terminals



### 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              | Push and push-to-release                                                                                                                                                                                               |
| Operator profile              | Black flush                                                                                                                                                                                                            |
| 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                                                                                                                                                                                                                    |
| Marking                                | Unmarked                                                                                                                                                                                                                                                |
| Contact operation                      | Slow-break                                                                                                                                                                                                                                              |
| Positive opening                       | With NC contact conforming to IEC 60947-5-1 appendix K                                                                                                                                                                                                  |
| Mechanical durability                  | 300000 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 Ø 4 mm screwdriver<br>Slotted compatible with flat Ø 5.5 mm screwdriver |
| Short-circuit protection               | 4 A cartridge fuse type gG conforming to IEC 60947-5-1                                                                                                                                                                                                  |
| [Ui] rated insulation voltage          | 250 V (pollution degree 3) conforming to IEC 60947-1                                                                                                                                                                                                    |
| [Uimp] rated impulse withstand voltage | 4 kV conforming to IEC 60947-1                                                                                                                                                                                                                          |

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [I <sub>e</sub> ] rated operational current | 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                                                                                                                                                        |
| Electrical durability                       | 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 |
| Electrical reliability                      | $\Lambda \leq 10\exp(-6)$ at 17 V, 5 mA conforming to IEC 60947-5-4                                                                                                                                                                                                                                                                                                                              |

## Environment

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

|                              |      |
|------------------------------|------|
| Unit Type of Package 1       | PCE  |
| Number of Units in Package 1 | 1    |
| Package 1 Height             | 5 cm |
| Package 1 Width              | 3 cm |
| Package 1 Length             | 3 cm |
| Package 1 Weight             | 20 g |

## Offer Sustainability

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

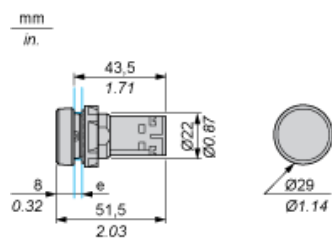
|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

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Pushbutton, Flush Type

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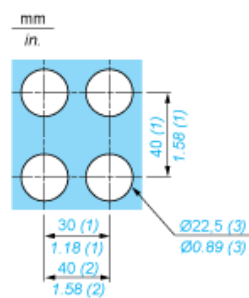
Dimensions



- 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).

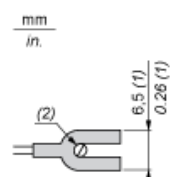
## Mounting

### Diameter of Finished Fixing Holes



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

## Wiring

