

# Product data sheet

Specifications



Push button, Harmony XB7, round black flush, 22mm, push to release, 1NO + 1NC, unmarked

XB7NH25

## 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 + 1 NC                                                                                                                                                                                                            |
| 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 | (21-22)NC<br>(13-14)NO                                                                                                                                     |
| Product 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                                                                                                                    |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                                                                                                                                                                                                                                                                                                   |
| [Ie] 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                                                                                                                                               |
| Enclosure Type                        | UL type 3/12                                                                                                                                                                   |
| Standards                             | IEC 60947-1<br>CSA C22.2 No 14<br>JIS C8201-5-1<br>UL 508<br>IEC 60947-5-1<br>JIS C8201-1                                                                                      |
| Product certifications                | CCC<br>GOST                                                                                                                                                                    |
| 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             | 3 cm  |
| Package 1 Width              | 12 cm |
| Package 1 Length             | 12 cm |
| Package 1 Weight             | 23 g  |

## Contractual warranty

|                      |    |
|----------------------|----|
| Warranty (in months) | 18 |
|----------------------|----|



## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



### Environmental footprint

|                                                        |                                               |
|--------------------------------------------------------|-----------------------------------------------|
| Total lifecycle Carbon footprint                       | 0.3 kg CO2 eq.                                |
| Carbon footprint of the manufacturing phase [A1 to A3] | 0.2 kg CO2 eq.                                |
| Carbon footprint of the distribution phase [A4]        | 0 kg CO2 eq.                                  |
| Carbon footprint of the installation phase [A5]        | 0 kg CO2 eq.                                  |
| Carbon footprint of the use phase [B2, B3, B4, B6]     | 0 kg CO2 eq.                                  |
| Carbon footprint of the end-of-life phase [C1 to C4]   | 0.1 kg CO2 eq.                                |
| Environmental Disclosure                               | <a href="#">Product Environmental Profile</a> |

## Use Better



### Materials and Substances

|                                        |                                                                                                                                                                                                                                                                                       |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Packaging made with recycled cardboard | Yes                                                                                                                                                                                                                                                                                   |
| Packaging without single use plastic   | No                                                                                                                                                                                                                                                                                    |
| SCIP Number                            | A04d4774-6224-4743-8a81-6c194ff09180                                                                                                                                                                                                                                                  |
| EU RoHS Directive                      | <a href="#">Compliant</a>                                                                                                                                                                                                                                                             |
| REACH Regulation                       | <a href="#">Reference contains Substances of Very High Concern above the threshold</a>                                                                                                                                                                                                |
| California proposition 65              | 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> |

## Use Longer



### Lifetime extension

|        |    |
|--------|----|
| Repair | No |
|--------|----|

## Use Again



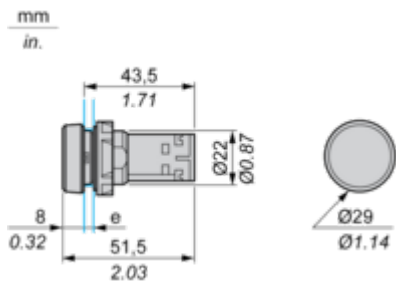
### Repack and remanufacture

|                                 |                                                                                                                                                                                                                 |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Recyclability potential, in %   | 11                                                                                                                                                                                                              |
| End of life manual availability | <a href="#">End of Life Information</a>                                                                                                                                                                         |
| Take-back                       | No                                                                                                                                                                                                              |
| WEEE Label                      |  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

Dimensions Drawings

Pushbutton, Flush Type

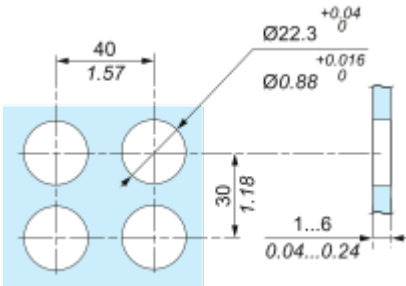
Dimensions



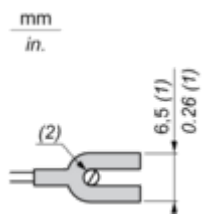
e Support panel thickness: 1 to 6 mm/0.4 to 0.24 in. (metal), 2 to 6 mm/0.8 to 0.24 in. (plastic).

Mounting and Clearance

Panel cut-out



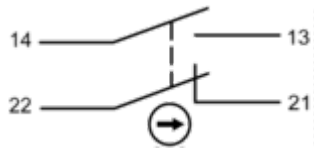
“U” Type Tag Connection



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

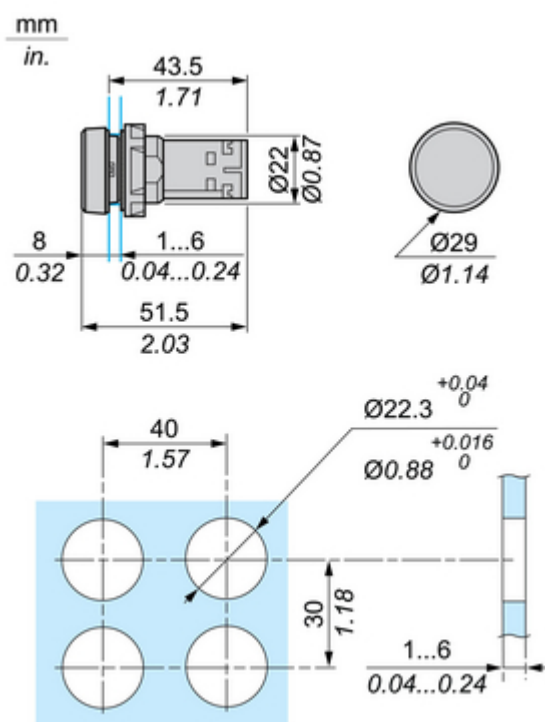
Connections and Schema

Wiring



## Technical Illustration

## Dimensions



Technical Illustration

Wiring diagram

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