

# Product data sheet

Specifications



Push button, Harmony XB4, metal, projecting, black, 22mm, spring return, booted, unmarked, 1NO

XB4BP21

## Main

|                                 |                                                                                                                                                                                                                        |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range of product                | Harmony XB4                                                                                                                                                                                                            |
| Device short name               | XB4                                                                                                                                                                                                                    |
| Product or component type       | Push-button                                                                                                                                                                                                            |
| Product compatibility           | Not compatible with legend holder                                                                                                                                                                                      |
| Bezel material                  | Chromium plated metal                                                                                                                                                                                                  |
| Fixing collar material          | Zamak                                                                                                                                                                                                                  |
| Mounting diameter               | 22.5 mm                                                                                                                                                                                                                |
| Sale per indivisible quantity   | 1                                                                                                                                                                                                                      |
| Shape of signaling unit head    | Round                                                                                                                                                                                                                  |
| Type of operator                | spring return                                                                                                                                                                                                          |
| Operator profile                | Black projecting, unmarked                                                                                                                                                                                             |
| Head type                       | Standard                                                                                                                                                                                                               |
| Operator additional information | Clear boot                                                                                                                                                                                                             |
| Contacts type and composition   | 1 NO                                                                                                                                                                                                                   |
| Contact operation               | Slow-break                                                                                                                                                                                                             |
| 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, $1 \times 0.22 \dots 2 \times 2.5 \text{ mm}^2$ without cable end conforming to IEC 60947-1 |

## Complementary

|                                    |                                                                |
|------------------------------------|----------------------------------------------------------------|
| Height                             | 47 mm                                                          |
| Width                              | 30 mm                                                          |
| Depth                              | 61 mm                                                          |
| Terminals description ISO n°1      | (13-14)NO                                                      |
| Net weight                         | 0.082 kg                                                       |
| Resistance to high pressure washer | 7000000 Pa at 55 °C, distance : 0.1 m                          |
| Contacts usage                     | Standard contacts                                              |
| Positive opening                   | Without                                                        |
| Operating travel                   | 2.6 mm (NO changing electrical state)<br>4.3 mm (total travel) |
| Operating force                    | 3.8 N NO changing electrical state                             |
| Mechanical durability              | 10000000 cycles                                                |

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

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tightening torque</b>                           | 0.8...1.2 N.m conforming to IEC 60947-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Shape of screw head</b>                         | 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                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Contacts material</b>                           | Silver alloy (Ag/Ni)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Short-circuit protection</b>                    | 10 A cartridge fuse type gG conforming to IEC 60947-5-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>[Ith] conventional free air thermal current</b> | 10 A conforming to IEC 60947-5-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>[Ui] rated insulation voltage</b>               | 600 V (pollution degree 3) conforming to IEC 60947-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>[Uimp] rated impulse withstand voltage</b>      | 6 kV conforming to IEC 60947-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>[Ie] rated operational current</b>              | 3 A at 240 V, AC-15, A600 conforming to IEC 60947-5-1<br>6 A at 120 V, AC-15, A600 conforming to IEC 60947-5-1<br>0.1 A at 600 V, DC-13, Q600 conforming to IEC 60947-5-1<br>0.27 A at 250 V, DC-13, Q600 conforming to IEC 60947-5-1<br>0.55 A at 125 V, DC-13, Q600 conforming to IEC 60947-5-1<br>1.2 A at 600 V, AC-15, A600 conforming to IEC 60947-5-1                                                                                                                                                                                                                                                                               |
| <b>Electrical durability</b>                       | 1000000 cycles, AC-15, 2 A at 230 V, operating rate <3600 cyc/h, load factor: 0.5 conforming to IEC 60947-5-1 appendix C<br>1000000 cycles, AC-15, 3 A at 120 V, operating rate <3600 cyc/h, load factor: 0.5 conforming to IEC 60947-5-1 appendix C<br>1000000 cycles, AC-15, 4 A at 24 V, operating rate <3600 cyc/h, load factor: 0.5 conforming to IEC 60947-5-1 appendix C<br>1000000 cycles, DC-13, 0.2 A at 110 V, operating rate <3600 cyc/h, load factor: 0.5 conforming to IEC 60947-5-1 appendix C<br>1000000 cycles, DC-13, 0.5 A at 24 V, operating rate <3600 cyc/h, load factor: 0.5 conforming to IEC 60947-5-1 appendix C |
| <b>Electrical reliability</b>                      | $\Lambda < 10\text{exp}(-6)$ at 5 V and 1 mA in clean environment conforming to IEC 60947-5-4<br>$\Lambda < 10\text{exp}(-8)$ at 17 V and 5 mA in clean environment conforming to IEC 60947-5-4                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Device presentation</b>                         | Complete product                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

## Environment

|                                              |                                                                                                                             |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>Protective treatment</b>                  | TH                                                                                                                          |
| <b>Ambient air temperature for storage</b>   | -40...70 °C                                                                                                                 |
| <b>Ambient air temperature for operation</b> | -40...70 °C                                                                                                                 |
| <b>Overvoltage category</b>                  | Class I conforming to IEC 60536                                                                                             |
| <b>IP degree of protection</b>               | IP66 conforming to IEC 60529<br>IP67                                                                                        |
| <b>NEMA degree of protection</b>             | NEMA 13<br>NEMA 4X                                                                                                          |
| <b>IK degree of protection</b>               | IK06 conforming to IEC 50102                                                                                                |
| <b>Standards</b>                             | JIS C8201-5-1<br>UL 508<br>IEC 60947-5-5<br>IEC 60947-5-1<br>CSA C22.2 No 14<br>IEC 60947-1<br>IEC 60947-5-4<br>JIS C8201-1 |
| <b>Product certifications</b>                | CSA<br>LROS (Lloyds register of shipping)<br>BV<br>UL listed<br>DNV                                                         |
| <b>Vibration resistance</b>                  | 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 |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Height             | 8.800 cm  |
| Package 1 Width              | 3.400 cm  |
| Package 1 Length             | 5.400 cm  |
| Package 1 Weight             | 83.000 g  |
| Unit Type of Package 2       | BB1       |
| Number of Units in Package 2 | 5         |
| Package 2 Height             | 8.800 cm  |
| Package 2 Width              | 3.400 cm  |
| Package 2 Length             | 26.500 cm |
| Package 2 Weight             | 418.000 g |
| Unit Type of Package 3       | S03       |
| Number of Units in Package 3 | 150       |
| Package 3 Height             | 30.000 cm |
| Package 3 Width              | 30.000 cm |
| Package 3 Length             | 40.000 cm |
| Package 3 Weight             | 12.993 kg |

## Contractual warranty

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

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 | 1                                             |
| Environmental Disclosure         | <a href="#">Product Environmental Profile</a> |

Use Better

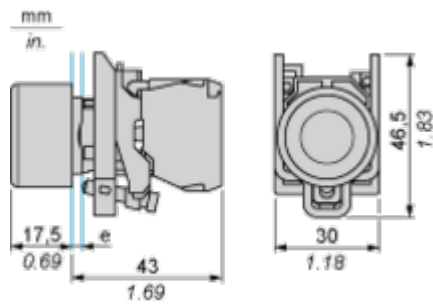
| Materials and Substances               |                                                                                                                                                                                                                                                                                       |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Packaging made with recycled cardboard | Yes                                                                                                                                                                                                                                                                                   |
| Packaging without single use plastic   | Yes                                                                                                                                                                                                                                                                                   |
| <a href="#">EU RoHS Directive</a>      | Pro-active compliance (Product out of EU RoHS legal scope)                                                                                                                                                                                                                            |
| REACH Regulation                       | <a href="#">REACH Declaration</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 Again

| Repack and remanufacture        |                                                                                                                                                                                                                 |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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

Dimensions



e : clamping thickness: 1 to 6 mm / 0.04 to 0.24 in.

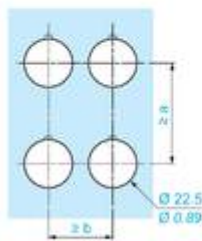
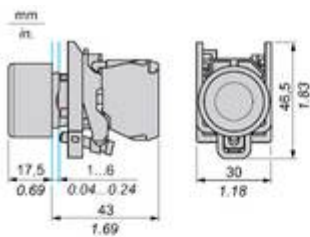
Mounting and Clearance

Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

| Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board                                                                                                                                                                                                                                       | Connection by Faston Connectors |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
|                                                                                                                                                                                                                                                                                                                             |                                 |
| <p>(1) Diameter on finished panel or support</p> <p>(2) 40 mm min. / 1.57 in. min.</p> <p>(3) 30 mm min. / 1.18 in. min.</p> <p>(4) Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm <math>^{+0.4}_0</math> / 0.88 in. <math>^{+0.016}_0</math>)</p> <p>(5) 45 mm min. / 1.78 in. min.</p> <p>(6) 32 mm min. / 1.26 in. min.</p> |                                 |

Technical Illustration

Dimensions



|                                                                                    |                                                                                    | a (mm) | a (in.) | b (mm) | b (in.) |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------|---------|--------|---------|
|   |   | 40     | 1.57    | 30     | 1.18    |
| ZBE.....                                                                           | ZBV.....                                                                           |        |         |        |         |
|   |   | 45     | 1.77    | 32     | 1.26    |
| ZBE.....3                                                                          | ZBV.....3                                                                          |        |         |        |         |
|   |   | 40     | 1.57    | 30     | 1.18    |
| ZBE.....4                                                                          | ZBV.....4                                                                          |        |         |        |         |
|   |   | 50     | 1.97    | 30     | 1.18    |
| ZBE.....5                                                                          | ZBV.....5                                                                          |        |         |        |         |
|   |   | 40     | 1.57    | 30     | 1.18    |
| ZBE.....9                                                                          | ZBV.....9                                                                          |        |         |        |         |
|  |  | 40     | 1.57    | 30     | 1.18    |
| ZBRT..                                                                             | ZBRV1                                                                              |        |         |        |         |

Image of product / Alternate images

Alternative

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