

# Product data sheet

Specifications



## Harmony, 22mm push button, red flush, spring return, 1 NC, unmarked

XB4BA42

**Product availability:** Stock - Normally stocked in distribution facility

### Main

|                               |                                                                                                                                                 |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Range of Product              | Harmony XB4                                                                                                                                     |
| Device short name             | XB4                                                                                                                                             |
| Product or Component Type     | Push-button                                                                                                                                     |
| Bezel material                | Chromium plated metal                                                                                                                           |
| Fixing collar material        | Zamak                                                                                                                                           |
| Mounting diameter             | 0.9 in (22.5 mm)                                                                                                                                |
| Sale per indivisible quantity | 1                                                                                                                                               |
| Shape of signaling unit head  | Round                                                                                                                                           |
| Type of operator              | spring return                                                                                                                                   |
| Operator profile              | Red flush, unmarked                                                                                                                             |
| Head type                     | Standard                                                                                                                                        |
| Contacts type and composition | 1 NC                                                                                                                                            |
| Contact operation             | Slow-break                                                                                                                                      |
| Connections - terminals       | Screw clamp terminals, <= 2 x 1.5 mm² with cable end IEC 60947-1<br>Screw clamp terminals, 1 x 0.22...2 x 2.5 mm² without cable end IEC 60947-1 |

### Complementary

|                                    |                                                                                 |
|------------------------------------|---------------------------------------------------------------------------------|
| Height                             | 1.9 in (47 mm)                                                                  |
| Width                              | 1.2 in (30 mm)                                                                  |
| Depth                              | 2.05 in (52 mm)                                                                 |
| Terminals description ISO n°1      | (21-22)NC                                                                       |
| Net Weight                         | 0.18 lb(US) (0.08 kg)                                                           |
| Resistance to high pressure washer | 1015.3 psi (7000000 Pa) 131 °F (55 °C) 0.1 m                                    |
| Contacts usage                     | Standard contacts                                                               |
| Positive opening                   | With IEC 60947-5-1 appendix K                                                   |
| Operating travel                   | 0.06 in (1.5 mm) NC changing electrical state)<br>0.2 in (4.3 mm) total travel) |
| Operating force                    | 3.5 N NC changing electrical state                                              |
| Mechanical durability              | 10000000 cycles                                                                 |
| Tightening torque                  | 7.08...10.6 lbf.in (0.8...1.2 N.m) IEC 60947-1                                  |

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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 Philips no 1<br>Cross pozidriv No 1<br>Slotted flat Ø 4 mm<br>Slotted flat Ø 5.5 mm                                                                                                                                                                                                                                                                                                  |
| Contacts material                           | Silver alloy (Ag/Ni)                                                                                                                                                                                                                                                                                                                                                                       |
| Short-circuit protection                    | 10 A cartridge fuse gG IEC 60947-5-1                                                                                                                                                                                                                                                                                                                                                       |
| [Ith] conventional free air thermal current | 10 A IEC 60947-5-1                                                                                                                                                                                                                                                                                                                                                                         |
| [Ui] rated insulation voltage               | 600 V 3)IEC 60947-1                                                                                                                                                                                                                                                                                                                                                                        |
| [Uimp] rated impulse withstand voltage      | 6 kV IEC 60947-1                                                                                                                                                                                                                                                                                                                                                                           |
| [Ie] rated operational current              | 3 A 240 V, AC-15, A600 IEC 60947-5-1<br>6 A 120 V, AC-15, A600 IEC 60947-5-1<br>0.1 A 600 V, DC-13, Q600 IEC 60947-5-1<br>0.27 A 250 V, DC-13, Q600 IEC 60947-5-1<br>0.55 A 125 V, DC-13, Q600 IEC 60947-5-1<br>1.2 A 600 V, AC-15, A600 IEC 60947-5-1                                                                                                                                     |
| Electrical durability                       | 1000000 cycles, AC-15, 2 A 230 V 3600 cyc/h 0.5 IEC 60947-5-1 appendix C<br>1000000 cycles, AC-15, 3 A 120 V 3600 cyc/h 0.5 IEC 60947-5-1 appendix C<br>1000000 cycles, AC-15, 4 A 24 V 3600 cyc/h 0.5 IEC 60947-5-1 appendix C<br>1000000 cycles, DC-13, 0.2 A 110 V 3600 cyc/h 0.5 IEC 60947-5-1 appendix C<br>1000000 cycles, DC-13, 0.5 A 24 V 3600 cyc/h 0.5 IEC 60947-5-1 appendix C |
| Electrical reliability                      | $\Lambda < 10\exp(-6)$ 5 V 1 mA in clean environment IEC 60947-5-4<br>$\Lambda < 10\exp(-8)$ 17 V 5 mA in clean environment IEC 60947-5-4                                                                                                                                                                                                                                                  |
| Device presentation                         | Complete product                                                                                                                                                                                                                                                                                                                                                                           |

## Environment

|                                       |                                                                                                                             |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Protective treatment                  | TH                                                                                                                          |
| Ambient Air Temperature for Storage   | -40...158 °F (-40...70 °C)                                                                                                  |
| ambient air temperature for operation | -40...158 °F (-40...70 °C)                                                                                                  |
| Overvoltage category                  | Class I conforming to IEC 60536                                                                                             |
| IP degree of protection               | IP66 IEC 60529<br>IP67<br>IP69<br>IP69K                                                                                     |
| NEMA degree of protection             | NEMA 13<br>NEMA 4X                                                                                                          |
| IK degree of protection               | IK06 conforming to IEC 50102                                                                                                |
| Standards                             | IEC 60947-5-5<br>UL 508<br>CSA C22.2 No 14<br>IEC 60947-5-4<br>IEC 60947-1<br>JIS C8201-5-1<br>IEC 60947-5-1<br>JIS C8201-1 |
| Product Certifications                | CSA<br>LROS (Lloyds register of shipping)<br>BV<br>UL Listed<br>DNV                                                         |
| Vibration resistance                  | 5 gn (f= 2...500 Hz) conforming to IEC 60068-2-6                                                                            |
| Shock resistance                      | 30 gn 18 ms) half sine wave acceleration IEC 60068-2-27<br>50 gn 11 ms) half sine wave acceleration IEC 60068-2-27          |

## Ordering and shipping details

|          |              |
|----------|--------------|
| Category | US10CS222468 |
|----------|--------------|

|                   |               |
|-------------------|---------------|
| Discount Schedule | 0CS2          |
| GTIN              | 3389110886962 |
| Returnability     | Yes           |
| Country of origin | FR            |

## Packing Units

|                              |                             |
|------------------------------|-----------------------------|
| Unit Type of Package 1       | PCE                         |
| Number of Units in Package 1 | 1                           |
| Package 1 Height             | 1.38 in (3.500 cm)          |
| Package 1 Width              | 2.17 in (5.500 cm)          |
| Package 1 Length             | 3.35 in (8.500 cm)          |
| Package 1 Weight             | 2.783 oz (78.900 g)         |
| Unit Type of Package 2       | S03                         |
| Number of Units in Package 2 | 150                         |
| Package 2 Height             | 11.81 in (30.000 cm)        |
| Package 2 Width              | 11.81 in (30.000 cm)        |
| Package 2 Length             | 15.75 in (40.000 cm)        |
| Package 2 Weight             | 27.046 lb(US) (12.268 kg)   |
| Unit Type of Package 3       | P06                         |
| Number of Units in Package 3 | 1200                        |
| Package 3 Height             | 29.53 in (75.000 cm)        |
| Package 3 Width              | 31.50 in (80.000 cm)        |
| Package 3 Length             | 23.62 in (60.000 cm)        |
| Package 3 Weight             | 234.008 lb(US) (106.144 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                        |                                               |
|------------------------------------------------|-----------------------------------------------|
| Carbon footprint (kg CO2 eq, Total Life cycle) | 1                                             |
| Environmental Disclosure                       | <a href="#">Product Environmental Profile</a> |

Use Better

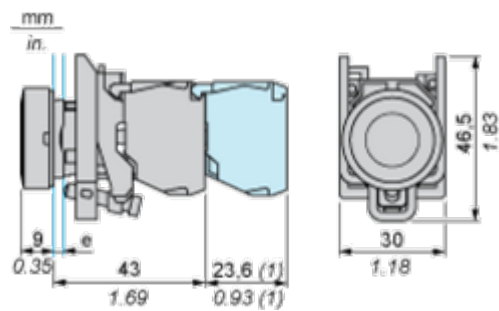
| Materials and Substances               |                                                                                                                                                                                                                                                           |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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="#">www.P65Warnings.ca.gov</a> |

Use Again

| Repack and remanufacture |                                                                                                                                                                                                                  |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Circularity Profile      | <a href="#">End of Life Information</a>                                                                                                                                                                          |
| Take-back                | No                                                                                                                                                                                                               |
| WEEE                     |  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.  
(1) Additional row of contacts or double contact.

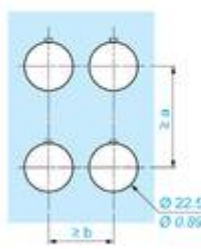
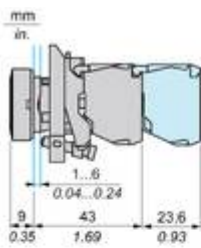
Mounting and Clearance

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

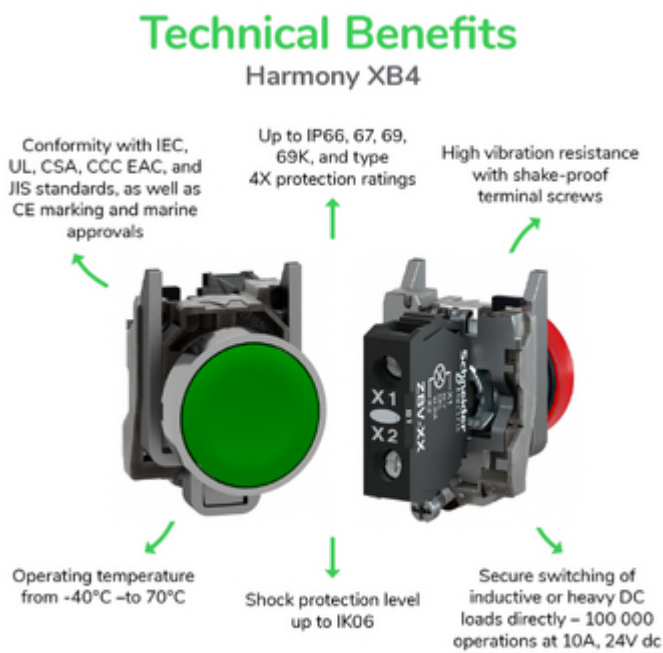
Dimensions



|                                                                                     |                                                                                     | 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                                                                               |        |         |        |         |

Offer Marketing Illustration

Product benefits / Features





Offer Marketing Illustration

Product benefits / Features

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### Features

Harmony XB4



Quick and easy assembly and disassembly



Various types of connection: screw clamp, connector, Faston connector, spring terminal, or printed circuit board



Excellent mechanical connection with operator head



Large set of accessories to customize your panels



Robustness to withstand harsh environments



Image of product / Alternate images

Alternative

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