

# XB4BA42

Harmony, 22mm push button, red flush, spring return, 1 NO, unmarked

Product availability: Stock - Normally stocked in distribution facility



## Main

|                               |                                                                                                                                                                                                                              |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range of product              | Harmony XB4                                                                                                                                                                                                                  |
| Product or component type     | Complete push-button                                                                                                                                                                                                         |
| Device short name             | XB4                                                                                                                                                                                                                          |
| Bezel material                | Chromium plated metal                                                                                                                                                                                                        |
| Fixing collar material        | Zamak                                                                                                                                                                                                                        |
| Mounting diameter             | 0.87 in (22 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: $\leq 2 \times 1.5 \text{ mm}^2$ with cable end conforming to EN/IEC 60947-1<br>Screw clamp terminals: $1 \times 0.22 \dots 2 \times 2.5 \text{ mm}^2$ without cable end conforming to EN/IEC 60947-1 |

## Complementary

|                                             |                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Height                                      | 1.85 in (47 mm)                                                                                                                                                                                                                                                                                                                                                                |
| Width                                       | 1.18 in (30 mm)                                                                                                                                                                                                                                                                                                                                                                |
| Depth                                       | 2.05 in (52 mm)                                                                                                                                                                                                                                                                                                                                                                |
| Terminals description ISO n°1               | (21-22)NC                                                                                                                                                                                                                                                                                                                                                                      |
| Product weight                              | 0.18 lb(US) (0.08 kg)                                                                                                                                                                                                                                                                                                                                                          |
| Resistance to high pressure washer          | 1015.26 psi (7000000 Pa) at 131 °F (55 °C), distance: 0.1 m                                                                                                                                                                                                                                                                                                                    |
| Contacts usage                              | Standard contacts                                                                                                                                                                                                                                                                                                                                                              |
| Positive opening                            | With positive opening conforming to EN/IEC 60947-5-1 appendix K                                                                                                                                                                                                                                                                                                                |
| Operating travel                            | 0.06 in (1.5 mm) (NC changing electrical state)<br>0.17 in (4.3 mm) (total travel)                                                                                                                                                                                                                                                                                             |
| Operating force                             | 3.5 N (NC changing electrical state)                                                                                                                                                                                                                                                                                                                                           |
| Mechanical durability                       | 10000000 cycles                                                                                                                                                                                                                                                                                                                                                                |
| Tightening torque                           | 7.08...10.62 lbf.in (0.8...1.2 N.m) conforming to EN 60947-1                                                                                                                                                                                                                                                                                                                   |
| Shape of screw head                         | Cross head compatible with Philips no 1 screwdriver<br>Cross head compatible with pozidriv No 1 screwdriver<br>Slotted head compatible with flat Ø 4 mm screwdriver<br>Slotted head compatible with flat Ø 5.5 mm screwdriver                                                                                                                                                  |
| Contacts material                           | Silver alloy (Ag/Ni)                                                                                                                                                                                                                                                                                                                                                           |
| Short-circuit protection                    | 10 A cartridge fuse type gG conforming to EN/IEC 60947-5-1                                                                                                                                                                                                                                                                                                                     |
| [Ith] conventional free air thermal current | 10 A conforming to EN/IEC 60947-5-1                                                                                                                                                                                                                                                                                                                                            |
| [Ui] rated insulation voltage               | 600 V (degree of pollution: 3) conforming to EN/IEC 60947-1                                                                                                                                                                                                                                                                                                                    |
| [Uimp] rated impulse withstand voltage      | 6 kV conforming to EN/IEC 60947-1                                                                                                                                                                                                                                                                                                                                              |
| [Ie] rated operational current              | 3 A at 240 V, AC-15, A600 conforming to EN/IEC 60947-5-1<br>6 A at 120 V, AC-15, A600 conforming to EN/IEC 60947-5-1<br>0.1 A at 600 V, DC-13, Q600 conforming to EN/IEC 60947-5-1<br>0.27 A at 250 V, DC-13, Q600 conforming to EN/IEC 60947-5-1<br>0.55 A at 125 V, DC-13, Q600 conforming to EN/IEC 60947-5-1<br>1.2 A at 600 V, AC-15, A600 conforming to EN/IEC 60947-5-1 |

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electrical durability  | 1000000 cycles AC-15 2 A 230 V <= 3600 cyc/h 0.5 EN/IEC 60947-5-1 appendix C<br>1000000 cycles AC-15 3 A 120 V <= 3600 cyc/h 0.5 EN/IEC 60947-5-1 appendix C<br>1000000 cycles AC-15 4 A 24 V <= 3600 cyc/h 0.5 EN/IEC 60947-5-1 appendix C<br>1000000 cycles DC-13 0.2 A 110 V <= 3600 cyc/h 0.5 EN/IEC 60947-5-1 appendix C<br>1000000 cycles DC-13 0.5 A 24 V <= 3600 cyc/h 0.5 EN/IEC 60947-5-1 appendix C |
| Electrical reliability | $\Lambda < 10\exp(-6)$ at 5 V, 1 mA in clean environment conforming to EN/IEC 60947-5-4<br>$\Lambda < 10\exp(-8)$ at 17 V, 5 mA in clean environment conforming to EN/IEC 60947-5-4                                                                                                                                                                                                                            |

## 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               | IP69<br>IP67<br>IP66 conforming to IEC 60529<br>IP69K                                                                                                                  |
| NEMA degree of protection             | NEMA 13<br>NEMA 4X                                                                                                                                                     |
| IK degree of protection               | IK06 IEC 50102                                                                                                                                                         |
| Standards                             | EN/IEC 60947-5-4<br>EN/IEC 60947-1<br>EN/IEC 60947-5-1<br>EN/IEC 60947-5-5<br>UL 508<br>JIS C 4520<br>CSA C22.2 No 14                                                  |
| Product certifications                | GL<br>DNV<br>RINA<br>BV<br>CSA<br>LROS (Lloyds register of shipping)<br>UL listed                                                                                      |
| Vibration resistance                  | 5 gn (f = 2...500 Hz) conforming to IEC 60068-2-6                                                                                                                      |
| Shock resistance                      | 30 gn (duration = 18 ms) half sine wave acceleration conforming to IEC 60068-2-27<br>50 gn (duration = 11 ms) half sine wave acceleration conforming to IEC 60068-2-27 |

## Ordering and shipping details

|                       |                                     |
|-----------------------|-------------------------------------|
| Category              | 22468 - PUSHBUTTONS,22MM(METAL) NEW |
| Discount Schedule     | CS2                                 |
| GTIN                  | 00785901380481                      |
| Nbr. of units in pkg. | 1                                   |
| Package weight(Lbs)   | 0.17000000000000001                 |
| Returnability         | Y                                   |
| Country of origin     | FR                                  |

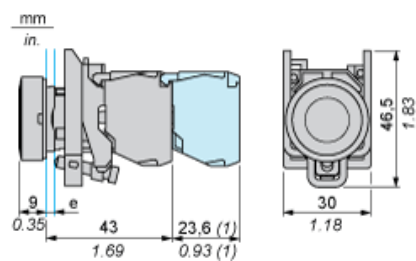
## Offer Sustainability

|                            |                                                                                                                            |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------|
| California proposition 65  | WARNING: This product can expose you to chemicals including:                                                               |
| - - - - - Substance 1      | Nickel compounds, which is known to the State of California to cause cancer, and                                           |
| - - - - - Substance 2      | Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. |
| - - - - - More information | For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                              |

## Contractual warranty

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

## Dimensions



- e : clamping thickness: 1 to 6 mm / 0.04 to 0.24 in.  
(1) Additional row of contacts or double contact.

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                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                              |  |
| <div>(1) Diameter on finished panel or support</div> <div>(2) 40 mm min. / 1.57 in. min.</div> <div>(3) 30 mm min. / 1.18 in. min.</div> <div>(4) Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm <sup>+0.4</sup><sub>0</sub> / 0.88 in. <sup>+0.016</sup><sub>0</sub>)</div> <div>(5) 45 mm min. / 1.78 in. min.</div> <div>(6) 32 mm min. / 1.26 in. min.</div> |                                                                                    |

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