

# Product datasheet

Specifications



Harmony XB4. Mushroom push button head Ø30. metal. black. Ø22. latching turn release

ZB4BS42

Price: 755.05 ZAR

## Main

|                               |                                      |
|-------------------------------|--------------------------------------|
| Range Of Product              | Harmony XB4                          |
| Product Or Component Type     | Head for non-illuminated push-button |
| Device Short Name             | ZB4                                  |
| Bezel Material                | Chromium plated metal                |
| Mounting Diamete              | 22 mm                                |
| Sale Per Indivisible Quantity | 1                                    |
| Head Type                     | Standard                             |
| Shape Of Signaling Unit Head  | Round                                |
| Type Of Operator              | latching                             |
| Reset                         | Turn to release                      |
| Operator Profile              | Black mushroom Ø 30 mm, unmarked     |

## Complementary

|                             |                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cad Overall Width           | 30 mm                                                                                                                                                                                                                                                                                                                             |
| Cad Overall Height          | 30 mm                                                                                                                                                                                                                                                                                                                             |
| Cad Overall Depth           | 57 mm                                                                                                                                                                                                                                                                                                                             |
| Net Weight                  | 0.066 kg                                                                                                                                                                                                                                                                                                                          |
| Mechanical Durability       | 500000 cycles                                                                                                                                                                                                                                                                                                                     |
| Electrical Composition Code | C11 for <3 contacts using single blocks in front mounting<br>C15 for <1 contacts using single blocks in front mounting<br>C7 for <4 contacts using single blocks in front mounting<br>C8 for <4 contacts using single and double blocks in front mounting<br>C10 for <4 contacts using single and double blocks in front mounting |
| Device Presentation         | Basic element                                                                                                                                                                                                                                                                                                                     |

## Environment

|                                       |                                                       |
|---------------------------------------|-------------------------------------------------------|
| Protective Treatment                  | TH                                                    |
| Ambient Air Temperature For Storage   | -40...70 °C                                           |
| Ambient Air Temperature For Operation | -40...70 °C                                           |
| Overvoltage Category                  | Class I conforming to IEC 60536                       |
| Ip Degree Of Protection               | IP66 conforming to IEC 60529<br>IP67<br>IP69<br>IP69K |

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

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

|                           |                                                                                                                                                                                |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nema Degree Of Protection | NEMA 13<br>NEMA 4X                                                                                                                                                             |
| Ik Degree Of Protection   | IK06 conforming to IEC 50102                                                                                                                                                   |
| Standards                 | EN/IEC 60947-1<br>EN/IEC 60947-5-4<br>JIS C8201-5-1<br>CSA C22.2 No 14<br>EN/IEC 60947-5-1<br>EN/IEC 60947-5-5<br>UL 508<br>JIS C8201-1                                        |
| Product Certifications    | UL listed<br>DNV<br>CSA<br>BV<br>GL<br>LROS (Lloyds register of shipping)                                                                                                      |
| Vibration Resistance      | 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             | 8.8 cm  |
| Package 1 Width              | 5.3 cm  |
| Package 1 Length             | 4.5 cm  |
| Package 1 Weight             | 72.0 g  |
| Unit Type Of Package 2       | S03     |
| Number Of Units In Package 2 | 100     |
| Package 2 Height             | 30.0 cm |
| Package 2 Width              | 30.0 cm |
| Package 2 Length             | 40.0 cm |
| Package 2 Weight             | 7.73 kg |

## Contractual warranty

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

Sustainability



**Green Premium™ label** is Schneider Electric’s commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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[Guide to assess a product’s sustainability >](#)



Transparency   RoHS/REACH

Well-being performance

|   |                            |     |
|---|----------------------------|-----|
| ✓ | Reach Free Of Svhc         |     |
| ✓ | Toxic Heavy Metal Free     |     |
| ✓ | Mercury Free               |     |
| ✓ | Rohs Exemption Information | Yes |

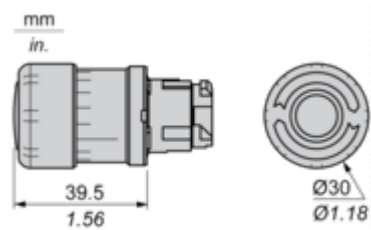
Certifications & Standards

|                          |                                                                                                   |
|--------------------------|---------------------------------------------------------------------------------------------------|
| Reach Regulation         | <a href="#">REACH Declaration</a>                                                                 |
| Eu Rohs Directive        | Pro-active compliance (Product out of EU RoHS legal scope)<br><a href="#">EU RoHS Declaration</a> |
| China Rohs Regulation    | <a href="#">China RoHS declaration</a>                                                            |
| Environmental Disclosure | <a href="#">Product Environmental Profile</a>                                                     |
| Circularity Profile      | <a href="#">End of Life Information</a>                                                           |

Dimensions Drawings

Dimensions

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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> |                                                                                    |

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

Panel Cut-outs (Viewed from Installer’s Side)



A: 30 mm min. / 1.18 in. min.  
B: 40 mm min. / 1.57 in. min.

Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

Dimensions in mm



A: 30 mm min.  
B: 40 mm min.  
Dimensions in in.



A: 1.18 in. min.

B: 1.57 in. min.

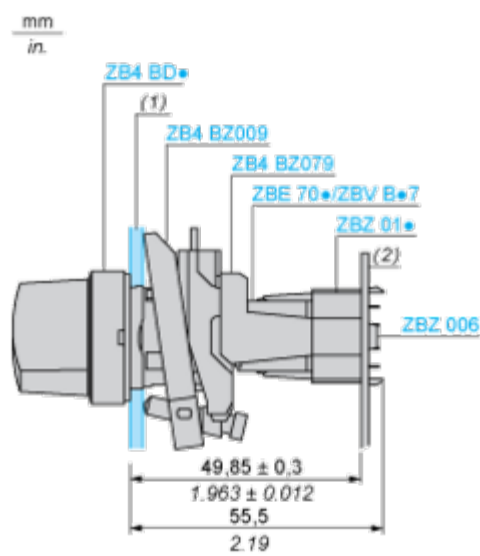
General Tolerances of the Panel and Printed Circuit Board

The cumulative tolerance must not exceed 0.3 mm / 0.012 in:  $T1 + T2 = 0.3 \text{ mm max.}$

Installation Precautions

- Minimum thickness of circuit board: 1.6 mm / 0.06 in.
- Cut-out diameter: 22.4 mm  $\pm$  0.1 / 0.88 in.  $\pm$  0.004
- Orientation of body/fixing collar ZB4 BZ009:  $\pm 2^\circ 30'$  (excluding cut-outs marked **a** and **b**).
- Tightening torque of screws ZBZ 006: 0.6 N.m (5.3 lbf.in) max.
- Allow for one ZB4 BZ079 fixing collar/pillar and its fixing screws:
  - every 90 mm / 3.54 in. horizontally (X), and 120 mm / 4.72 in. vertically (Y).
  - with each selector switch head (ZB4 BD\*, ZB4 BJ\*, ZB4 BG\*).

The fixing centers marked **a** and **b** are diagonally opposed and must align with those marked **4** and **5**.



- (1) Panel  
(2) Printed circuit board

**Mounting of Adapter (Socket) ZBZ 01•**

- 1 2 elongated holes for ZBZ 006 screw access
- 2 1 hole Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 for centring adapter ZBZ 01•
- 3 8 × Ø 1.2 mm / 0.05 in. holes
- 4 1 hole Ø 2.9 mm ± 0.05 / 0.11 in. ± 0.002, for aligning the printed circuit board (with cut-out marked a)
- 5 1 elongated hole for aligning the printed circuit board (with cut-out marked b)
- 6 4 holes Ø 2.4 mm / 0.09 in. for clipping in adapter ZBZ 01•

Dimensions An + 18.1 relate to the Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 holes for centring adapter ZBZ 01•.

Technical Description

Electrical Composition Corresponding to Code C7

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Electrical Compositions Corresponding to Code C8

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Electrical Compositions Corresponding to Code C10

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Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1



Electrical Composition Corresponding to Code C15

1 N/O



1 N/C



1 N/O + N/C or 1 N/O + N/O or 1 N/C + N/C



Legend

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Single contact



Double contact



Light block



Possible location

