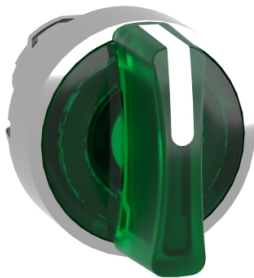


# Product datasheet

Specifications



Harmony XB4. Illuminated selector switch head. metal. green. Ø22. integral LED. 3 positions. stay put

ZB4BK1333

Price: 659.16 ZAR

## Main

|                               |                                      |
|-------------------------------|--------------------------------------|
| Range Of Product              | Harmony XB4                          |
| Product Or Component Type     | Head for illuminated selector switch |
| Product Compatibility         | Universal LED                        |
| Device Short Name             | ZB4                                  |
| Bezel Material                | Chromium plated metal                |
| Head Type                     | Standard                             |
| Mounting Diamete              | 22 mm                                |
| Sale Per Indivisible Quantity | 1                                    |
| Shape Of Signaling Unit Head  | Round                                |
| Type Of Operator              | stay put                             |
| Operator Profile              | Green standard handle                |
| Operator Position Information | 3 positions +/- 45°                  |

## Complementary

|                                    |                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cad Overall Width                  | 29 mm                                                                                                                                                                                                                                                                                                                                            |
| Cad Overall Height                 | 29 mm                                                                                                                                                                                                                                                                                                                                            |
| Cad Overall Depth                  | 43 mm                                                                                                                                                                                                                                                                                                                                            |
| Net Weight                         | 0.036 kg                                                                                                                                                                                                                                                                                                                                         |
| Resistance To High Pressure Washer | 7000000 Pa at 55 °C, distance : 0.1 m                                                                                                                                                                                                                                                                                                            |
| Mechanical Durability              | 500000 cycles                                                                                                                                                                                                                                                                                                                                    |
| Electrical Composition Code        | M3 for <4 contacts using single blocks in front mounting with integral LED<br>M6 for <2 contacts using single blocks in front mounting with integral LED and transformer<br>M10 for <2 contacts using single blocks in front mounting with integral LED<br>M4 for <4 contacts using single and double blocks in front mounting with integral LED |
| 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 |

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

|                           |                                                                                                                                                                                |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ip Degree Of Protection   | IP66 conforming to IEC 60529<br>IP67<br>IP69<br>IP69K                                                                                                                          |
| Nema Degree Of Protection | NEMA 13<br>NEMA 4X                                                                                                                                                             |
| Ik Degree Of Protection   | IK04 conforming to IEC 50102                                                                                                                                                   |
| Standards                 | JIS C8201-5-1<br>EN/IEC 60947-5-4<br>EN/IEC 60947-5-1<br>CSA C22.2 No 14<br>EN/IEC 60947-5-5<br>UL 508<br>EN/IEC 60947-1<br>JIS C8201-1                                        |
| Product Certifications    | BV<br>DNV<br>GL<br>LROS (Lloyds register of shipping)<br>UL listed<br>CSA                                                                                                      |
| 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             | 3.600 cm  |
| Package 1 Width              | 5.300 cm  |
| Package 1 Length             | 5.400 cm  |
| Package 1 Weight             | 41.200 g  |
| Unit Type Of Package 2       | BB1       |
| Number Of Units In Package 2 | 5         |
| Package 2 Height             | 5.000 cm  |
| Package 2 Width              | 3.300 cm  |
| Package 2 Length             | 26.500 cm |
| Package 2 Weight             | 206.000 g |
| Unit Type Of Package 3       | S03       |
| Number Of Units In Package 3 | 250       |
| Package 3 Height             | 30.000 cm |
| Package 3 Width              | 30.000 cm |
| Package 3 Length             | 40.000 cm |
| Package 3 Weight             | 10.685 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.

[Learn more about Green Premium >](#)

[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.

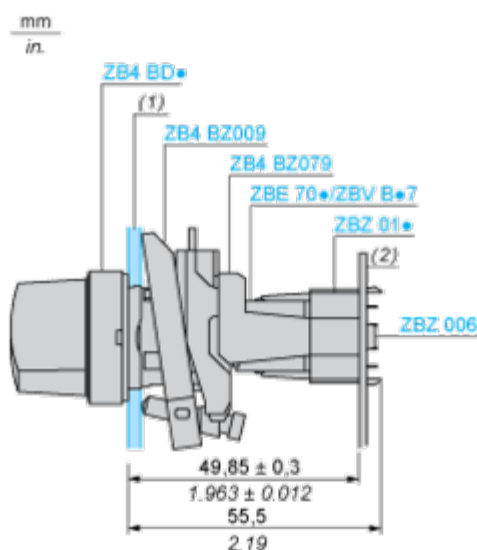
General Tolerances of the Panel and Printed Circuit Board

The cumulative tolerance must not exceed 0.3 mm / 0.012 in: T1 + T2 = 0.3 mm max.

Installation Precautions

- Minimum thickness of circuit board: 1.6 mm / 0.06 in.
- Cut-out diameter: 22.4 mm ± 0.1 / 0.88 in. ± 0.004
- Orientation of body/fixing collar ZB4 BZ009: ± 2° 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 M3

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Electrical Composition Corresponding to Code M4

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Electrical Composition Corresponding to Codes M6 and P2

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Electrical Composition Corresponding to Codes M5, M10, MF1, MR1 and MF2



Legend

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Single contact



Double contact



Light block



Possible location



Sequence of Contacts Fitted to 3-position Selector Switch Body

Position 315°



|          |          |        |        |  |        |
|----------|----------|--------|--------|--|--------|
| Push     | Position | Top    |        |  |        |
|          |          | Bottom |        |  |        |
|          | Location |        | Left   |  | Right  |
|          | State    |        | 1      |  | 0      |
|          |          |        |        |  |        |
| Contacts | N/O      |        | closed |  | open   |
|          | N/C      |        | open   |  | closed |

Position 0°



|          |          |        |        |  |        |
|----------|----------|--------|--------|--|--------|
| Push     | Position | Top    |        |  |        |
|          |          | Bottom |        |  |        |
|          | Location |        | Left   |  | Right  |
|          | State    |        | 0      |  | 0      |
|          |          |        |        |  |        |
| Contacts | N/O      |        | open   |  | open   |
|          | N/C      |        | closed |  | closed |

Position 45°



|          |          |        |                                                                                   |                                                                                   |                                                                                   |
|----------|----------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Push     | Position | Top    |  |  |                                                                                   |
|          |          | Bottom |  |                                                                                   |  |
|          | Location |        | Left                                                                              |                                                                                   | Right                                                                             |
|          | State    |        | 0                                                                                 |                                                                                   | 1                                                                                 |
|          |          |        |                                                                                   |                                                                                   |                                                                                   |
| Contacts | N/O      |        | open                                                                              |                                                                                   | closed                                                                            |
|          | N/C      |        | closed                                                                            |                                                                                   | open                                                                              |