# **Product datasheet**

Specifications





Head for illuminated emergency switching off push button, Harmony XB5, plastic, red mushroom 40mm, 22mm, universal LED, turn to release

ZB5AW743

### Main

| Range of product              | Harmony XB5  |  |
|-------------------------------|--|--|
| Product or component type     | Head for illuminated emergency switching off push-button |  |
| Device short name             | ZB5  |  |
| Product compatibility         | ty Universal LED   |  |
| Bezel material                | Dark grey plastic  |  |
| Mounting diameter             | 22 mm  |  |
| Sale per indivisible quantity | 1  |  |
| Head type                     | Standard   |  |
| Shape of signaling unit head  | Round  |  |
| Type of operator              | or latching  |  |
| Reset                         | Turn to release  |  |
| Operator profile              | Red mushroom Ø 40 mm, unmarked                           |  |

# Complementary

| CAD overall width                        | 40 mm   |  |  |  |
|--|---|--|--|--|
| CAD overall height                       | 40 mm   |  |  |  |
| CAD overall depth                        | 50 mm   |  |  |  |
| Product weight                           | 0.022 kg  |  |  |  |
| Resistance to high pressure washer       | 7000000 Pa at 55 °C, distance : 0.1 m   |  |  |  |
| Mechanical durability 300000 cycles      |   |  |  |  |
| Main group Switching off                 |   |  |  |  |
| Group of product                         | Emer swi off illum turn to rel  |  |  |  |
| Station name                             | XALD 1 cut-out<br>XALK 1 cut-out  |  |  |  |
| Cap/operator or lens colour              | Red   |  |  |  |
| Marking                                  | Unmarked  |  |  |  |
| Electrical composition code              | M6 for <2 contacts using single blocks in front mounting with integral LED and transformer M10 for <2 contacts using single blocks in front mounting with integral LED MF1 for <2 contacts using single blocks in front mounting with integral LED MR1 for <2 contacts using single blocks in rear mounting with integral LED |  |  |  |
| device presentation Basic sub-assemblies |   |  |  |  |

# **Environment**

| protective treatment                  | TC  |
|---------------------------------------|---|
| Ambient air temperature for storage   | -4070 °C  |
| Ambient air temperature for operation | -4070 °C  |
| Overvoltage category                  | Class II conforming to IEC 60536  |
| IP degree of protection               | IP66 conforming to IEC 60529<br>IP69<br>IP69K   |
| NEMA degree of protection             | NEMA 13<br>NEMA 4X  |
| IK degree of protection               | IK05 conforming to IEC 62262  |
| Standards                             | IEC 60947-5-4 IEC 60947-1 GB 14048.5 IEC 60947-5-1 CSA C22.2 No 14 JIS C8201-5-1 UL 508 JIS C8201-1   |
| product certifications                | UL listed LROS (Lloyds register of shipping) BV GL CSA DNV  |
| Vibration resistance                  | 5 gn (f= 2500 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 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             | 8.6 cm  |
| Package 1 Width              | 4.2 cm  |
| Package 1 Length             | 5.4 cm  |
| Package 1 Weight             | 36.0 g  |
| Unit Type of Package 2       | S03     |
| Number of Units in Package 2 | 120     |
| Package 2 Height             | 30.0 cm |
| Package 2 Width              | 30.0 cm |
| Package 2 Length             | 40.0 cm |
| Package 2 Weight             | 4.85 kg |

# **Contractual warranty**

Warranty 18 months



**Green Premium**<sup>TM</sup> **label** is Schneider Electric's commitment to delivering products with best-inclass 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

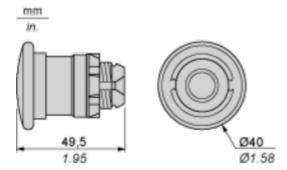
| <b>⊘</b> | Reach Free Of Svhc         |     |
|----------|----------------------------|-----|
| <b>②</b> | Toxic Heavy Metal Free     |     |
| <b>⊘</b> | Mercury Free               |     |
| <b>⊘</b> | Rohs Exemption Information | Yes |

#### **Certifications & Standards**

| Eu Rohs Directive        | Pro-active compliance (Product out of EU RoHS legal scope)  EU RoHS Declaration |
|--------------------------|---|
| China Rohs Regulation    | China RoHS declaration  |
| Environmental Disclosure | Product Environmental Profile   |
| Circularity Profile      | End of Life Information   |

# **Dimensions Drawings**

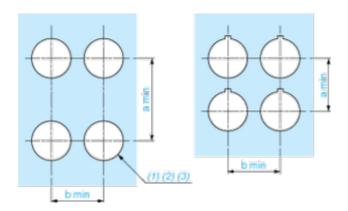
## **Dimensions**



#### Mounting and Clearance

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

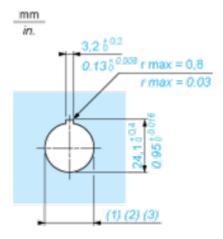
#### Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (1) Diameter on finished panel or support
- (2) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.
- (3) Ø22.5 mm recommended (Ø22.3  $_0^{+0.4}$ ) / Ø0.89 in. recommended (Ø0.88 in.  $_0^{+0.016}$ )

| <u> </u>                                      |         |          | •       |          |
|---|---------|----------|---------|----------|
| Connections                                   | a in mm | a in in. | b in mm | b in in. |
| By screw clamp terminals or plug-in connector | 40      | 1.57     | 30      | 1.18     |
| By Faston connectors                          | 45      | 1.77     | 32      | 1.26     |
| On printed circuit board                      | 30      | 1.18     | 30      | 1.18     |

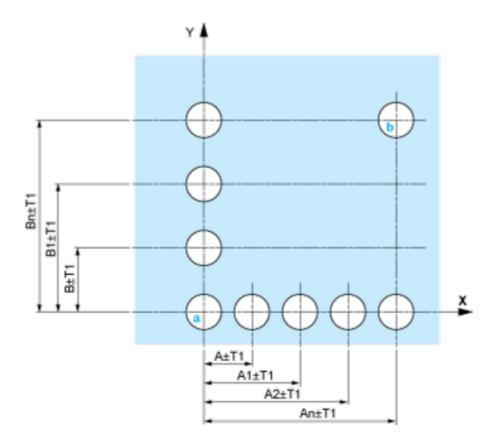
#### **Detail of Lug Recess**



- (1) Diameter on finished panel or support
- (2) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended. (3)  $\emptyset$ 22.5 mm recommended ( $\emptyset$ 22.3  $_0^{+0.4}$ ) /  $\emptyset$ 0.89 in. recommended ( $\emptyset$ 0.88 in.  $_0^{+0.016}$ )

### Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

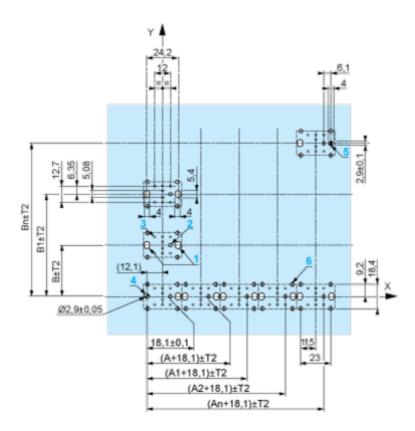
#### Panel Cut-outs (Viewed from Installer's Side)



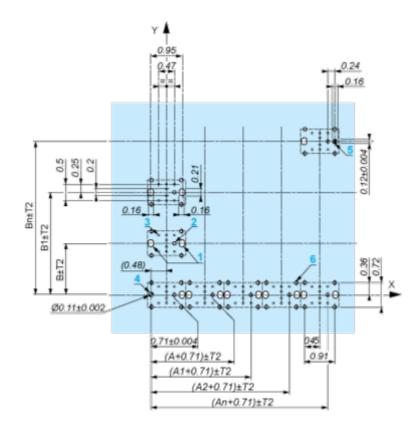
**A:** 30 mm min. / 1.18 in. min. **B:** 40 mm min. / 1.57 in. min.

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

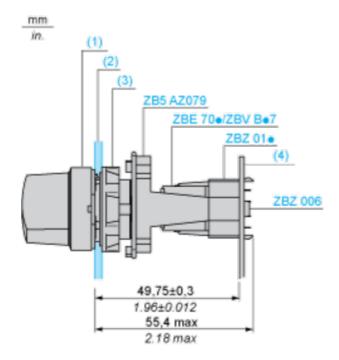
The cumulative tolerance must not exceed 0.3 mm / 0.012 in.: T1 + T2 = 0.3 mm max.

### **ZB5AW743**

#### **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 ZB5AZ009: ± 2 30' (excluding cut-outs marked a and b).
- Tightening torque of screws ZBZ006: 0.6 N.m (5.3 lbf.in) max.
- Allow for one ZB5AZ079 fixing collar/pillar and its fixing screws:
  - $_{\circ}\;$  every 90 mm / 3.54 in. horizontally (X), and 120 mm / 4.72 in. vertically (Y).
  - o with each selector switch head (ZB5AD•, ZB5AJ•, ZB5AG•).

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



- (1) Head ZB5AD•
- (2) Panel
- (2) Nut
- (4) Printed circuit board

#### Mounting of Adapter (Socket) ZBZ01•

- 1 2 elongated holes for ZBZ006 screw access
- 2 1 hole Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 for centring adapter ZBZ01•
- 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 ZBZ01•

Dimensions An + 18.1 relate to the Ø 2.4 mm  $\pm$  0.05 / 0.09 in.  $\pm$  0.002 holes for centring adapter ZBZ01+.

# **Product datasheet**

# **ZB5AW743**

**Technical Description** 

**Electrical Composition Corresponding to Codes M6 and P2** 



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



## Legend

Single contact



Double contact



Light block



Possible location



06-Sept-2024