## ZB5AH2C0

Harmony XB5, Push button head, plastic, projecting, black, Ø22, push-push, unmarked, grey bezel



#### Main

| Range of product              | Harmony XB5                          |
|-------------------------------|--------------------------------------|
| Product or component type     | Head for non-illuminated push-button |
| Device short name             | ZB5                                  |
| Bezel material                | Plastic colour plated grey           |
| Mounting diameter             | 22 mm                                |
| Head type                     | Standard                             |
| Sale per indivisible quantity | 1                                    |
| Shape of signaling unit head  | Round                                |
| Type of operator              | push-push                            |
| Operator profile              | Black projecting, unmarked           |
|                               |                                      |

#### Complementary

| CAD overall width           | 29 mm   |  |
|-----------------------------|---|--|
| CAD overall height          | 29 mm   |  |
| CAD overall depth           | 33 mm   |  |
| Net weight                  | 0.018 kg  |  |
| Mechanical durability       | 2000000 cycles  |  |
| Station name                | XALD 15 cut-outs<br>XALK 25 cut-outs  |  |
| Electrical composition code | C11 for <3 contacts using single blocks in front mounting C15 for <1 contacts using single blocks in front mounting SF1 for <3 contacts using single blocks in front mounting SR1 for <3 contacts using single blocks in rear mounting C9 for <3 contacts using single blocks in front mounting |  |

#### **Environment**

| Protective treatment                  | TH  |  |
|---------------------------------------|---|--|
| 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>IP67  |  |
| NEMA degree of protection             | NEMA 13<br>NEMA 4X  |  |
| Resistance to high pressure washer    | 7000000 Pa at 55 °C, distance : 0.1 m   |  |
| IK degree of protection               | IK03 conforming to IEC 50102  |  |
| Product certifications                | DNV[RETURN]UL listed[RETURN]CSA[RETURN]LROS (Lloyds register of shipping)[RETURN]GL[RETURN]BV   |  |
| 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 |  |
| Vibration resistance                  | 5 gn (f= 2500 Hz) conforming to IEC 60068-2-6   |  |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not inherent for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the dourn and restring of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

### Packing Units

| Unit Type of Package 1       | PCE    |  |
|------------------------------|--------|--|
| Number of Units in Package 1 | 1      |  |
| Package 1 Height             | 4.2 cm |  |
| Package 1 Width              | 3.3 cm |  |
| Package 1 Length             | 5.2 cm |  |
| Package 1 Weight             | 18.0 g |  |

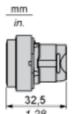
### Offer Sustainability

| REACh Regulation           | ☑ REACh Declaration   |
|----------------------------|---|
| REACh free of SVHC         | Yes   |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS  Declaration |
| Toxic heavy metal free     | Yes   |
| Mercury free               | Yes   |
| China RoHS Regulation      | ☐ China RoHS Declaration  |
| RoHS exemption information | ₽¥Yes   |
|                            |   |

# Product data sheet Dimensions Drawings

# ZB5AH2C0

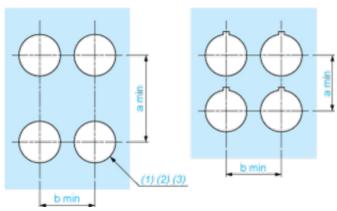
#### **Dimensions**





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

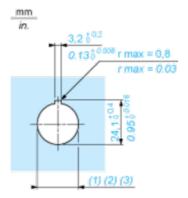
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (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  $_0$  <sup>+0.4</sup>) / Ø0.89 in. recommended (Ø0.88 in.  $_0$  <sup>+0.016</sup>)

| 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     |

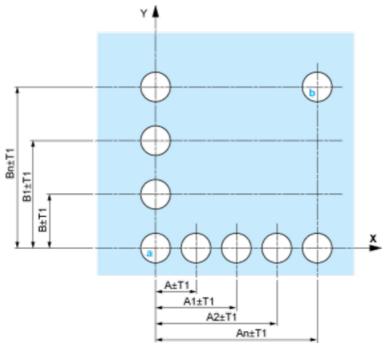
#### **Detail of Lug Recess**



- (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) Ø22.5 mm recommended (Ø22.3  $_0$  <sup>+0.4</sup>) / Ø0.89 in. recommended (Ø0.88 in.  $_0$  <sup>+0.016</sup>)

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

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

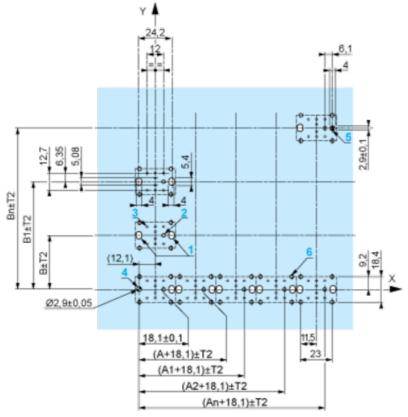


A: 30 mm min. / 1.18 in. min.

B: 40 mm min. / 1.57 in. min.

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

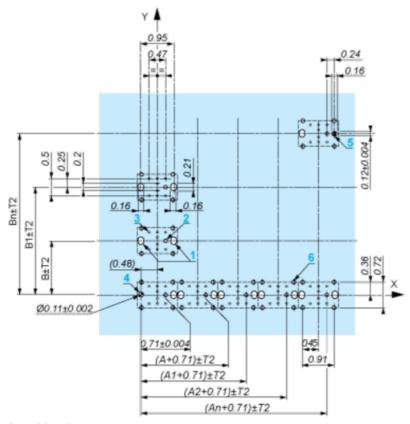
Dimensions in mm



A: 30 mm min.

B: 40 mm min.

Dimensions in in.



A: 1.18 in. min. B: 1.57 in. min.

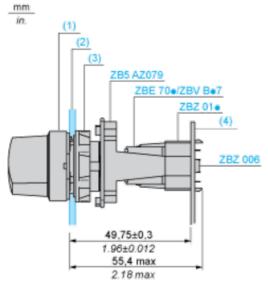
#### General Tolerances of the Panel and Printed Circuit Board

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 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:
  - $\circ \quad$  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

#### 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 data sheet Technical Description

# ZB5AH2C0

| 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   |
| Single contact   |
|  |
| Double contact   |
|  |
|  |
|  |
| Light block  |
|  |

#### Possible location

