

# Product data sheet

Specifications



Head for emergency stop push button, Harmony XB5, switching off, plastic, red mushroom 40mm, 22mm, trigger/latching key release, Dom 4A185

ZB5AS944D

## Main

|                               |  |
|-------------------------------|--|
| Range Of Product              | Harmony XB5                            |
| Product Or Component Type     | Head for emergency stop push-button    |
| Product Destination           | Emergency stop push-button             |
| Device Short Name             | ZB5                                    |
| Bezel Material                | Dark grey plastic                      |
| Head Type                     | Standard                               |
| Mounting Diameter             | 22 mm                                  |
| Sale Per Indivisible Quantity | 1                                      |
| Shape Of Signaling Unit Head  | Round                                  |
| Type Of Operator              | trigger action and mechanical latching |
| Reset                         | Key release                            |
| Operator Profile              | Red mushroom Ø 40 mm, unmarked         |
| Type Of Keylock               | Dom 4A185                              |
| Key Withdrawal Position       | Center                                 |
| Device Presentation           | Basic element                          |

## Complementary

|                             |  |
|-----------------------------|--|
| Cad Overall Width           | 40 mm  |
| Cad Overall Height          | 40 mm  |
| Cad Overall Depth           | 79 mm  |
| Net Weight                  | 0.071 kg   |
| Mechanical Durability       | 300000 cycles  |
| Station Name                | XALD 1 cut-out<br>XALK 1 cut-out   |
| Electrical Composition Code | C7 for <4 contacts using single blocks in front mounting<br>C8 for <4 contacts using single and double blocks in front mounting<br>C11 for <3 contacts using single blocks in front mounting<br>C15 for <1 contacts using single blocks in front mounting<br>SF1 for <3 contacts using single blocks in front mounting<br>SR1 for <3 contacts using single blocks in rear mounting<br>C10 for <4 contacts using single and double blocks in front mounting |
| Compatibility Code          | ZB5  |

## Environment

|  |   |
|--|---|
| <b>Protective Treatment</b>                  | TH  |
| <b>Ambient Air Temperature For Storage</b>   | -40...70 °C   |
| <b>Ambient Air Temperature For Operation</b> | -40...70 °C   |
| <b>Overvoltage Category</b>                  | Class II conforming to IEC 60536  |
| <b>Ip Degree Of Protection</b>               | IP66 conforming to IEC 60529<br>IP67<br>IP69<br>IP69K   |
| <b>Nema Degree Of Protection</b>             | NEMA 13<br>NEMA 4X  |
| <b>Resistance To High Pressure Washer</b>    | 7000000 Pa at 55 °C, distance : 0.1 m   |
| <b>Ik Degree Of Protection</b>               | IK03 conforming to IEC 50102  |
| <b>Standards</b>                             | CSA C22.2 No 14<br>EN/IEC 60947-1<br>EN/IEC 60947-5-4<br>EN/IEC 60947-5-5<br>EN/IEC 60204-1<br>GB 14048.5<br>EN/IEC 60947-5-1<br>UL 508<br>JIS C8201-5-1<br>IEC 60364-5-53<br>EN/ISO 13850<br>JIS C8201-1 |
| <b>Product Certifications</b>                | UL listed<br>CSA<br>BV<br>GL<br>DNV<br>LROS (Lloyds register of shipping)   |
| <b>Vibration Resistance</b>                  | 5 gn (f= 2...500 Hz) conforming to IEC 60068-2-6  |
| <b>Shock Resistance</b>                      | 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

|                                     |        |
|-------------------------------------|--------|
| <b>Unit Type Of Package 1</b>       | PCE    |
| <b>Number Of Units In Package 1</b> | 1      |
| <b>Package 1 Height</b>             | 8.8 cm |
| <b>Package 1 Width</b>              | 4.4 cm |
| <b>Package 1 Length</b>             | 5.4 cm |
| <b>Package 1 Weight</b>             | 71.0 g |

## Contractual warranty

|                 |           |
|-----------------|-----------|
| <b>Warranty</b> | 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 >](#)



RoHS/REACH

## Well-being performance

✓ Mercury Free

✓ Rohs Exemption Information [Yes](#)

## Certifications & Standards

Reach Regulation [REACH Declaration](#)

Eu Rohs Directive Pro-active compliance (Product out of EU RoHS legal scope)

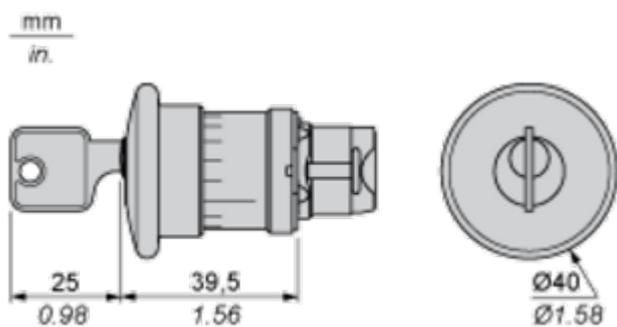
China Rohs Regulation [China RoHS declaration](#)

California Proposition 65  
WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

Dimensions Drawings

Dimensions

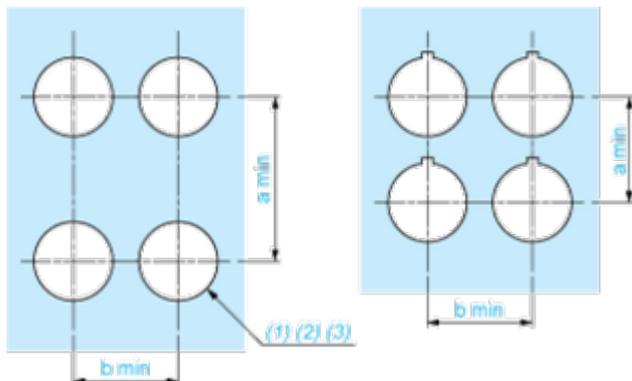
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Mounting and Clearance

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

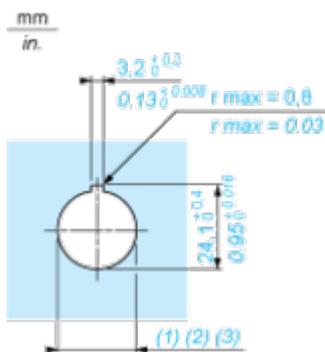
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (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 ( $\text{Ø}22.3_0^{+0.4}$ ) / Ø0.89 in. recommended ( $\text{Ø}0.88_0^{+0.016}$ )

| 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     |

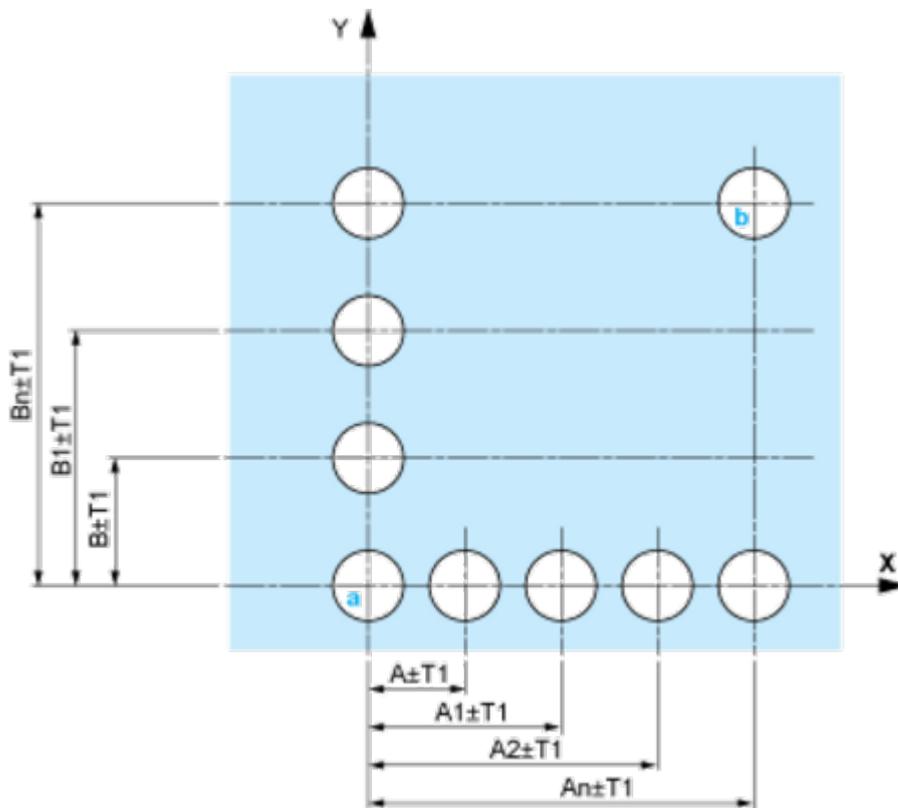
Detail of Lug Recess



- (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 ( $\text{Ø}22.3_0^{+0.4}$ ) / Ø0.89 in. recommended ( $\text{Ø}0.88_0^{+0.016}$ )

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

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

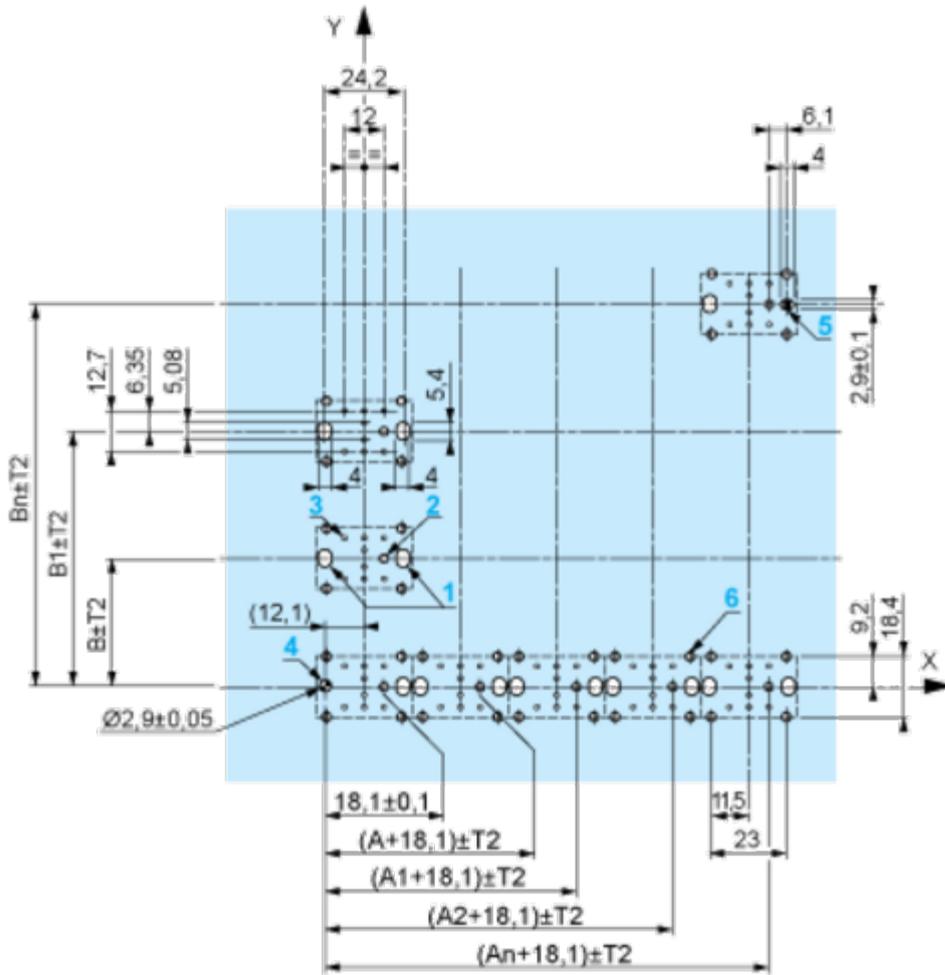


A: 30 mm min. / 1.18 in. min.

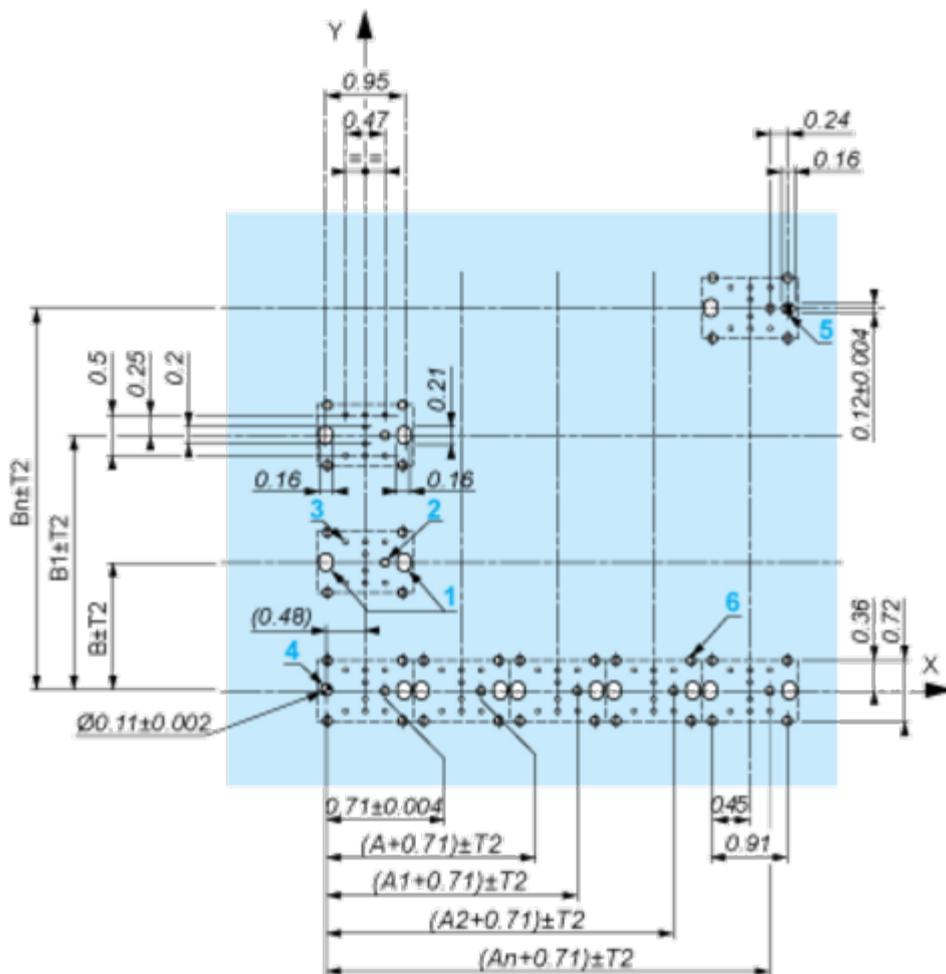
B: 40 mm min. / 1.57 in. min.

**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.

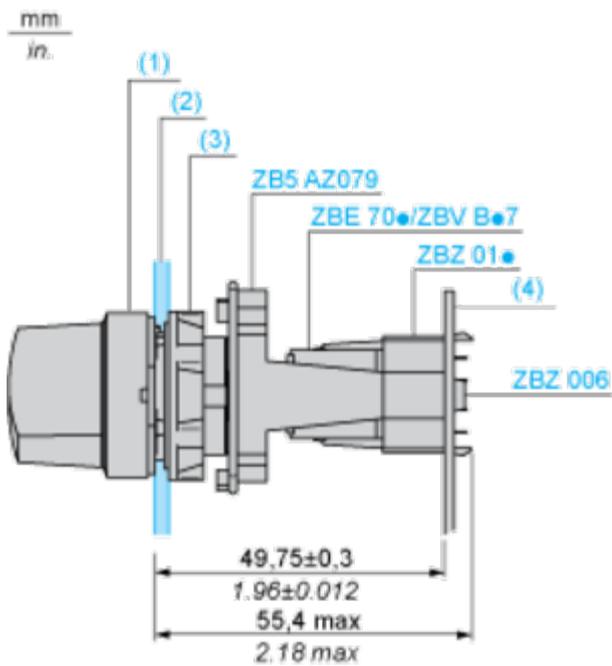
**General Tolerances of the Panel and Printed Circuit Board**

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

**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:
  - every 90 mm / 3.54 in. horizontally (X), and 120 mm / 4.72 in. vertically (Y).
  - 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•**

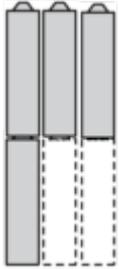
- 1 2 elongated holes for ZBZ006 screw access
- 2 1 hole  $\varnothing$  2.4 mm  $\pm$  0.05 / 0.09 in.  $\pm$  0.002 for centring adapter ZBZ01•
- 3 8  $\times$   $\varnothing$  1.2 mm / 0.05 in. holes
- 4 1 hole  $\varnothing$  2.9 mm  $\pm$  0.05 / 0.11 in.  $\pm$  0.002, for aligning the printed 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  $\varnothing$  2.4 mm / 0.09 in. for clipping in adapter ZBZ01•

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

Technical Description

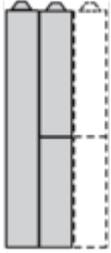
Electrical Composition Corresponding to Code C7

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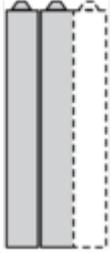
Electrical Compositions Corresponding to Code C8

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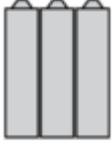


Electrical Compositions Corresponding to Code C10

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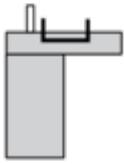
Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1



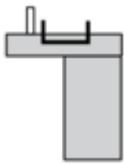
Electrical Composition Corresponding to Code C15

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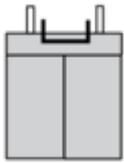
1 N/O



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

