



Main

| | |
|-------------------------------|-------------------------------------|
| Range of product | Harmony XB5 |
| Product or component type | Head for double-headed push-button |
| Device short name | ZB5 |
| Bezel material | Plastic |
| Mounting diameter | 0.87 in (22 mm) |
| Head type | Standard |
| Sale per indivisible quantity | 1 |
| Shape of signaling unit head | Rectangular |
| Type of operator | Spring return |
| Operator profile | 1 flush - 1 projecting push-buttons |
| Operators description | Green "I" - red "O" |

Complementary

| | |
|-----------------------------|--|
| CAD overall width | 1.18 in (30 mm) |
| CAD overall height | 1.97 in (50 mm) |
| CAD overall depth | 1.38 in (35 mm) |
| Product weight | 0.05 lb(US) (0.023 kg) |
| Colour of marking | Black marking when white caps White marking when green, red or black caps |
| Operator profile | Green flush, white I Red projecting, white O |
| Mechanical durability | 1000000 cycles |
| Station name | XALD 1 cut-out |
| Electrical composition code | C4 6 contacts using single and double blocks in front mounting C3 6 contacts using single blocks in front mounting C14 2 contacts using single blocks in front mounting SF2 2 contacts using single blocks in front mounting SR2 2 contacts using single blocks in rear mounting |
| Customizable | No |

Environment

| | |
|---------------------------------------|---|
| protective treatment | TH |
| ambient air temperature for storage | -40...158 °F (-40...70 °C) |
| ambient air temperature for operation | -13...158 °F (-25...70 °C) |
| electrical shock protection class | Class II conforming to IEC 60536 |
| IP degree of protection | IP66 conforming to IEC 60529 IP69K conforming to IEC 60529 |
| NEMA degree of protection | NEMA 13 NEMA 4X |
| resistance to high pressure washer | 1015.26 psi (7000000 Pa) at 131 °F (55 °C), distance: 0.1 m |
| IK degree of protection | IK03 conforming to IEC 50102 |
| standards | EN/IEC 60947-1 EN/IEC 60947-5-1 EN/IEC 60947-5-4 JIS C 4520 UL 508 CSA C22.2 No 14 |
| product certifications | BV CSA DNV GL LROS (Lloyds register of shipping) RINA |

The information provided in this documentation contains general descriptions and/or technical characteristics of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing 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.

UL listed

| | |
|----------------------|--|
| vibration resistance | 5 gn (f = 2...500 Hz) conforming to IEC 60068-2-6 |
| shock resistance | 30 gn (duration = 18 ms) half sine wave acceleration conforming to IEC 60068-2-27 50 gn (duration = 11 ms) half sine wave acceleration conforming to IEC 60068-2-27 |

Offer Sustainability

WARNING: This product can expose you to chemicals including:

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Nickel compounds, which is known to the State of California to cause cancer, and

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Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm.

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For more information go to www.p65warnings.ca.gov

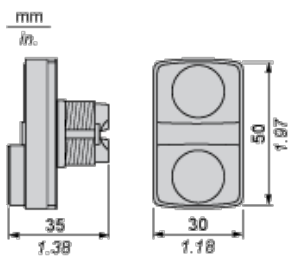
For more information go to www.p65warnings.ca.gov

Contractual warranty

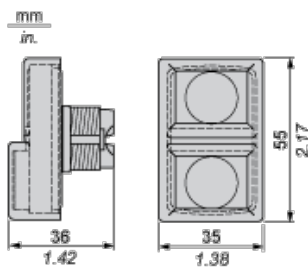
Warranty period 18 months

Dimensions

Without Boot

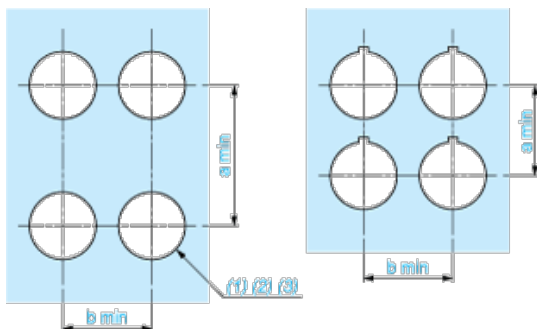


With Boot ZBA710



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

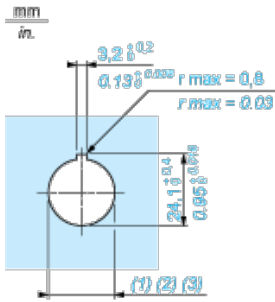


- (1) Diameter on finished panel or support
- (2) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.
- (3) Ø22.5 mm recommended ($\text{Ø}22.3_{0}^{+0.4}$) / Ø0.89 in. recommended ($\text{Ø}0.89_{0}^{+0.016}$)

| 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 |

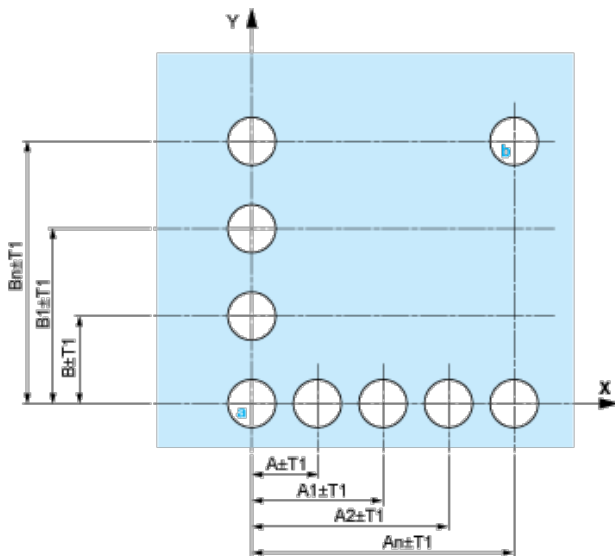
Detail of Lug Recess



- (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) $\varnothing 22.3 \text{ mm}$ recommended ($\varnothing 22.3 \text{ mm} \text{ }_0^{+0.4}$) / $\varnothing 0.89 \text{ in.}$ recommended ($\varnothing 0.89 \text{ in.} \text{ }_0^{+0.016}$)

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

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

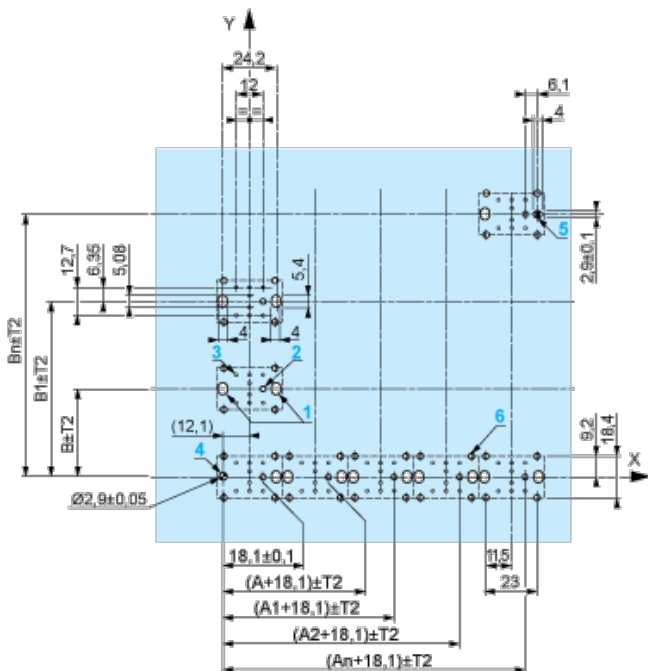


A: 30 mm min. / 1.18 in. min.

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

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

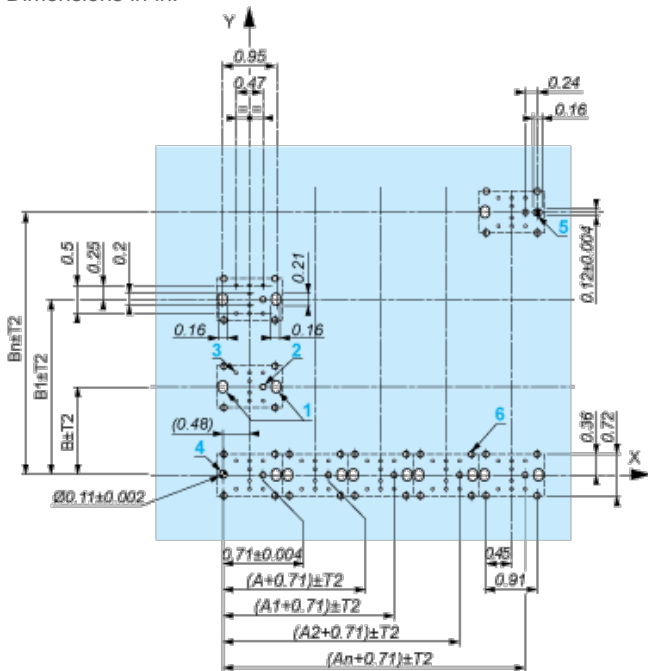
Dimensions in mm



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.: $T1 + T2 = 0.3 \text{ mm max.}$

Installation Precautions

- ı Minimum thickness of circuit board: 1.6 mm / 0.06 in.
- ı Cut-out diameter: 22.4 mm ± 0.1 / 0.88 in. ± 0.004
- ı Orientation of body/fixing collar ZB5AZ009: ± 2°30' (excluding cut-outs marked **a** and **b**).
- ı Tightening torque of screws ZBZ006: 0.6 N.m (5.3 lbf.in) max.
- ı Allow for one ZB5AZ079 fixing collar/pillar and its fixing screws:
 - ı every 90 mm / 3.54 in. horizontally (X), and 120 mm / 4.72 in. vertically (Y).
 - ı 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**.



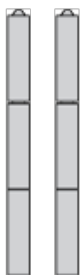
- (1) Head ZB5AD•
- (2) Panel
- (2) Nut
- (4) Printed circuit board

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•.

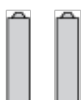
Electrical Composition Corresponding to Code C3



Electrical Composition Corresponding to Code C4



Electrical Composition Corresponding to Codes C14, SF2 and SR2



Legend

Single contact



Double contact



Light block



Possible location



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Schneider Electric:](#)

[ZB5AL7341](#)