



black flush pushbutton head Ø22 spring return "OFF"

ZB5AA235

! Discontinued on: Oct 20, 2020

① Discontinued

Main

| Range of Product | Harmony XB5 | |
|--|-------------------------|--|
| Product or Component Type Head for non-illuminated push-button | | |
| Device short name | ZB5 | |
| Bezel material | Dark grey plastic | |
| Mounting diameter | 0.9 in (22 mm) | |
| Head type | Standard | |
| Sale per indivisible quantity | 1 | |
| Shape of signaling unit head | Round | |
| Type of operator | spring return | |
| Operator profile | Black flush, OFF white) | |

Complementary

| • | |
|-----------------------------|---|
| CAD overall width | 1.1 in (29 mm) |
| CAD overall height | 1.1 in (29 mm) |
| CAD overall depth | 1.1 in (28 mm) |
| Net Weight | 0.040 lb(US) (0.018 kg) |
| Mechanical durability | 10000000 cycles |
| Station name | XALD 15 cut-outs XALK 25 cut-outs |
| Electrical composition code | C1 9 single front mounting C2 9 single and double front mounting C11 3 single front mounting C15 1 single front mounting SF1 3 single front mounting SR1 3 single rear mounting |
| Device presentation | Basic element |

Environment

| Protective treatment | тн |
|---------------------------------------|----------------------|
| Ambient Air Temperature for Storage | -40158 °F (-4070 °C) |
| Ambient Air Temperature for Operation | -40158 °F (-4070 °C) |
| Overvoltage category | Class II IFC 60536 |

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

| IP degree of protection | IP66 IEC 60529 IP67 IP69 IP69K | | | | |
|--|---|--|--|--|--|
| NEMA degree of protection | NEMA 13 NEMA 4X | | | | |
| Resistance to high pressure washer | 1015.3 psi (7000000 Pa) 131 °F (55 °C) 0.1 m | | | | |
| IK degree of protection IK03 conforming to IEC 50102 | | | | | |
| Product Certifications | LROS (Lloyds register of shipping) BV DNV GL UL Listed CSA | | | | |
| Shock resistance | 30 gn 18 ms) half sine wave acceleration IEC 60068-2-27 50 gn 11 ms) half sine wave acceleration IEC 60068-2-27 | | | | |
| Vibration resistance | 5 gn 2500 Hz)IEC 60068-2-6 | | | | |

Ordering and shipping details

| Category | 22467-PUSHBUTTONS,22MM(PLASTIC) NEW | | |
|-----------------------|-------------------------------------|--|--|
| Discount Schedule CS2 | | | |
| GTIN 3389110904512 | | | |
| Returnability | No | | |
| Country of origin | FR | | |

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance

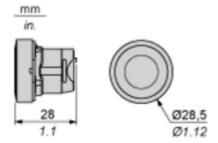
| | Reach Free Of Svhc | |
|----------|----------------------------|-----|
| ⊘ | Mercury Free | |
| ② | Rohs Exemption Information | Yes |

Certifications & Standards

| Eu Rohs Directive | Pro-active compliance (Product out of EU RoHS legal scope) | | |
|---------------------------|---|--|--|
| China Rohs Regulation | China RoHS declaration | | |
| Environmental Disclosure | Product Environmental Profile | | |
| Circularity Profile | End of Life Information | | |
| California Proposition 65 | WARNING: This product can expose you to chemicals including: Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov | | |

Dimensions Drawings

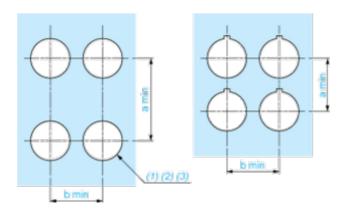
Dimensions



Mounting and Clearance

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

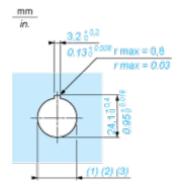
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (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 (Ø22.3 $_0^{+0.4}$) / Ø0.89 in. recommended (Ø0.88 in. $_0^{+0.016}$)

| | | | | 0 |
|---|---------|----------|---------|----------|
| 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 |

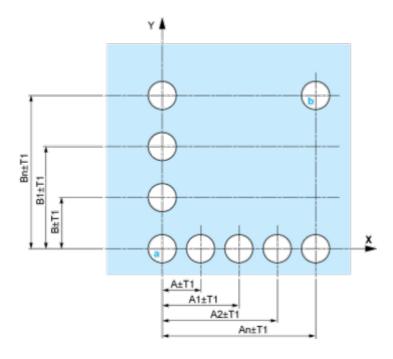
Detail of Lug Recess



- (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 $_0^{+0.4}$) / Ø0.89 in. recommended (Ø0.88 in. $_0^{+0.016}$)

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

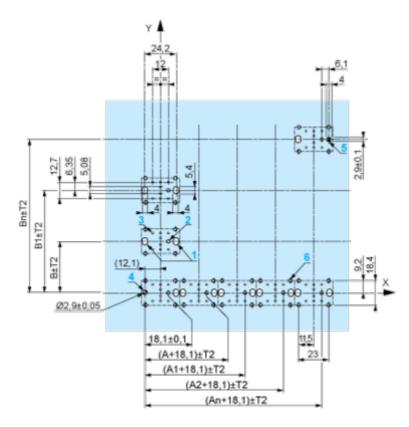
Panel Cut-outs (Viewed from Installer's Side)



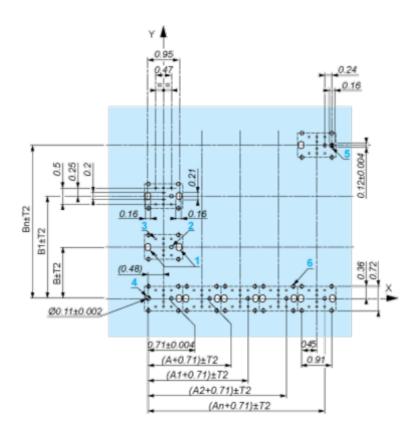
A: 30 mm min. / 1.18 in. min. **B:** 40 mm min. / 1.57 in. min.

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.

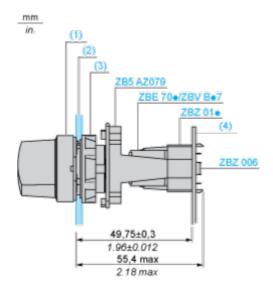
General Tolerances of the Panel and Printed Circuit Board

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

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 ${\bf a}$ and ${\bf b}$ are diagonally opposed and must align with those marked ${\bf 4}$ and ${\bf 5}$.



Product data sheet

ZB5AA235

- (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
- $_{ullet}$ 4 1 hole Ø 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 Ø 2.4 mm / 0.09 in. for clipping in adapter ZBZ01•

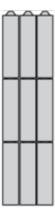
Dimensions An + 18.1 relate to the Ø 2.4 mm \pm 0.05 / 0.09 in. \pm 0.002 holes for centring adapter ZBZ01•.

Product data sheet

ZB5AA235

Technical Description

Electrical Composition Corresponding to Code C1



Electrical Composition Corresponding to Code C2



Product data sheet

ZB5AA235

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

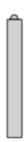


Legend

Single contact



Double contact



Light block



Possible location



Technical Illustration

Dimensions

