

Main

| Range of product | Harmony XB5 |
|-------------------------------|------------------------------|
| Product or component type | Head for key selector switch |
| Device short name | ZB5 |
| Bezel material | Dark grey plastic |
| Mounting diameter | 0.87 in (22 mm) |
| Head type | Standard |
| Sale per indivisible quantity | 1 |
| Shape of signaling unit head | Round |
| Type of operator | Stay put |
| Operator profile | Black key switch |
| Operator position information | 3 positions +/- 45° |
| Type of keylock | Ronis 421E |
| Key withdrawal position | In any position |

Complementary

| 1 | |
|-----------------------------|--|
| CAD overall width | 1.14 in (29 mm) |
| CAD overall height | 1.14 in (29 mm) |
| CAD overall depth | 2.83 in (72 mm) |
| Product weight | 0.13 lb(US) (0.057 kg) |
| Mechanical durability | 1000000 cycles |
| Station name | XALD 15 cut-outs XALK 25 cut-outs |
| Electrical composition code | C11 3 contacts using single blocks in front mounting SF1 3 contacts using single blocks in front mounting C7 4 contacts using single blocks in front mounting C8 4 contacts using single and double blocks in front mounting SR1 3 contacts using single blocks in rear mounting C4 6 contacts using single and double blocks in front mounting C5 for 5 contacts using single blocks in front mounting C6 for 5 contacts using single and double blocks in front mounting C3 6 contacts using single blocks in front mounting |

Environment

| Protective treatment | TH | | | |
|---------------------------------------|--|--|--|--|
| Ambient air temperature for storage | -40158 °F (-4070 °C) | | | |
| Ambient air temperature for operation | -40158 °F (-4070 °C) | | | |
| Overvoltage category | Class II conforming to IEC 60536 | | | |
| IP degree of protection | IP69 IP67 IP66 conforming to IEC 60529 IP69K | | | |
| 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 | IK06 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 |
| | UL listed |
| Vibration resistance | 5 gn (f = 2500 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 |
| | |

Ordering and shipping details

| 0 11 0 | |
|-----------------------|---------------------------------------|
| Category | 22467 - PUSHBUTTONS,22MM(PLASTIC) NEW |
| Discount Schedule | CS2 |
| GTIN | 00785901493686 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 0.11 |
| Returnability | N |
| Country of origin | FR |
| | |

Offer Sustainability

| California proposition 65 | WARNING: This product can expose you to chemicals including: |
|---------------------------|--|
| Substance 1 | Nickel compounds, which is known to the State of California to cause cancer, and |
| Substance 2 | Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. |
| More information | For more information go to www.p65warnings.ca.gov |

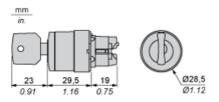
Contractual warranty

| Warranty period | 18 months | |
|-----------------|-----------|--|

Product data sheet Dimensions Drawings

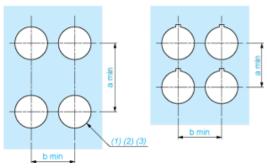
ZB5AG012

Dimensions



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

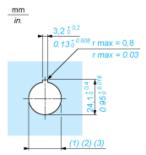
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



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

| 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 |

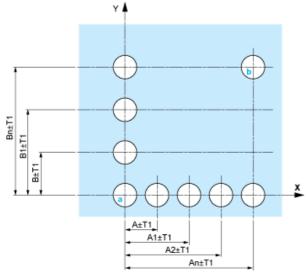
Detail of Lug Recess



- (1) Diameter on finished panel or support
- For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.
- 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

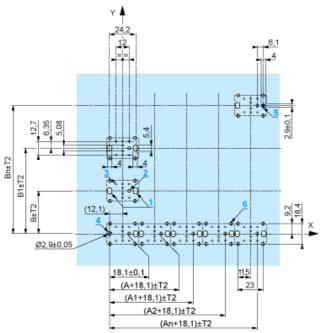
Panel Cut-outs (Viewed from Installer's Side)



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

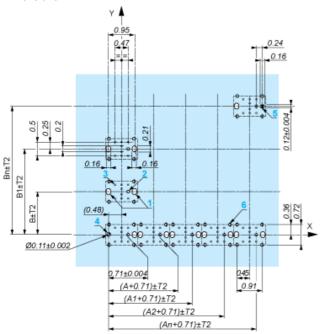
Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

Dimensions in mm



A: 30 mm min. B: 40 mm min.

Dimensions in in.



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

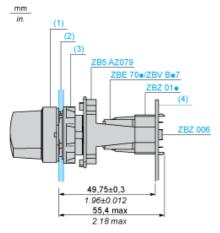
General Tolerances of the Panel and Printed Circuit Board

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:
 - o 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 \pm 0.05 / 0.09 in. \pm 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•.

ZB5AG012

| Electrical Composition Corresponding to Code C4 |
|---|
| |
| Electrical Composition Corresponding to Code C5 |
| |
| Electrical Composition Corresponding to Code C6 |
| |
| Electrical Composition Corresponding to Code C7 |
| |
| Electrical Composition Corresponding to Code C8 |
| |
| Electrical Composition Corresponding to Code C3 |



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



Legend

Single contact



Double contact



Light block



Possible location



Sequence of Contacts Fitted to 3-position Selector Switch Body

Position 315°



| Push | Position | Тор | | | |
|----------|----------|------|--------|--------|------|
| Bottom | | | Δ | | |
| Location | | Left | Centre | Right | |
| State | | 1 | 1 | 0 | |
| Contacts | N/O | | closed | closed | open |
| N/C | | open | open | closed | |

Position 0°



| Push | Position | Тор | | | |
|----------|----------|--------|--------|--------|------|
| Bottom | Δ | Δ | Δ | | |
| Location | | Left | Centre | Right | |
| State | | 0 | 0 | 0 | |
| Contacts | N/O | | open | open | open |
| N/C | | closed | closed | closed | |

Position 45°



| Push | Position | Тор | | | |
|----------|----------|--------|--------|--------|--------|
| Bottom | | | | | |
| Location | | Left | Centre | Right | |
| State | | 0 | 1 | 1 | |
| Contacts | N/O | | open | closed | closed |
| N/C | | closed | open | open | |

Mouser Electronics

Authorized Distributor

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

Schneider Electric: ZB5AG012