# Product data sheet Characteristics

# ZB5AD306

Head for selector switch, Harmony XB5, XB4, blue Ø22 mm 3 position stay put





| Main                             |                          |
|----------------------------------|--------------------------|
| Range of Product                 | Harmony XB5              |
| Product or Component<br>Type     | Head for selector switch |
| Device short name                | ZB5                      |
| Bezel material                   | Dark grey plastic        |
| Mounting diameter                | 0.87 in (22 mm)          |
| Head type                        | Standard                 |
| Sale per indivisible<br>quantity | 1                        |
| Shape of signaling unit head     | Round                    |
| Type of operator                 | Stay put                 |
| Operator profile                 | Blue standard handle     |
| Operator position information    | 3 positions +/- 45°      |

#### Complementary

| Complementary                         |   |
|---------------------------------------|---|
| CAD overall width                     | 1.14 in (29 mm)   |
| CAD overall height                    | 1.14 in (29 mm)   |
| CAD overall depth                     | 1.81 in (46 mm)   |
| Net Weight                            | 0.04 lb(US) (0.017 kg)  |
| Mechanical durability                 | 1000000 cycles  |
| Station name                          | XALD 15 cut-outs<br>XALK 25 cut-outs  |
| Electrical composition code           | C3 6 single front mounting<br>C4 6 single and double front mounting<br>C5 5 single front mounting<br>C6 5 single and double front mounting<br>C7 4 single front mounting<br>C8 4 single and double front mounting<br>C11 3 single front mounting<br>SF1 3 single front mounting<br>SR1 3 single rear mounting |
| Device presentation                   | Basic element   |
| 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 IEC 60536  |
| IP degree of protection               | IP67 IEC 60529<br>IP69 IEC 60529<br>IP69K   |
| NEMA degree of protection             | NEMA 13<br>NEMA 4X  |
| Resistance to high pressure washer    | 1015.26 psi (7000000 Pa) 131 °F (55 °C) 0.1 m   |
| IK degree of protection               | IK06 IEC 50102  |
|                                       |   |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products for submined herein. This documentation is not intended as a substitute for and is not to be used for determining substitity or reliability of these products for specific use applications. It is the ducty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products for specific user applications. Neither Schneider Electric Inductive SSA nor any of its affiliates or substitiantes shall be responsible or liable for misues of the information contrained herein.



| EN/IEC 60947-5-4  |   |
|---|---|
| CSA C22.2 No 14   |   |
| JIS C8201-5-1   |   |
| EN/IEC 60947-5-1  |   |
| EN/IEC 60947-1  |   |
| UL 508  |   |
| JIS C8201-1   |   |
| LROS (Lloyds register of shipping)                      |   |
| DNV   |   |
| BV  |   |
| CSA   |   |
| UL Listed   |   |
| GL  |   |
| 5 gn 2500 Hz)IEC 60068-2-6                              |   |
| 30 gn 18 ms) half sine wave acceleration IEC 60068-2-27 |   |
| 50 gn 11 ms) half sine wave acceleration IEC 60068-2-27 |   |
|   | CSA C22.2 No 14<br>JIS C8201-5-1<br>EN/IEC 60947-5-1<br>EN/IEC 60947-1<br>UL 508<br>JIS C8201-1<br>LROS (Lloyds register of shipping)<br>DNV<br>BV<br>CSA<br>UL Listed<br>GL<br>5 gn 2500 Hz)IEC 60068-2-6<br>30 gn 18 ms) half sine wave acceleration IEC 60068-2-27 |

## Ordering and shipping details

| Category              | 22467-PUSHBUTTONS,22MM(PLASTIC) NEW |  |  |
|-----------------------|-------------------------------------|--|--|
| Discount Schedule     | CS2                                 |  |  |
| GTIN                  | 3389110815825                       |  |  |
| Nbr. of units in pkg. | 1                                   |  |  |
| Package weight(Lbs)   | 0.85 oz (24.0 g)                    |  |  |
| Returnability         | No                                  |  |  |
| Country of origin     | FR                                  |  |  |
|                       |                                     |  |  |

# Packing Units

| Unit Type of Package 1 | PCE              |  |
|------------------------|------------------|--|
| Package 1 Height       | 2.20 in (5.6 cm) |  |
| Package 1 width        | 1.34 in (3.4 cm) |  |
| Package 1 Length       | 2.13 in (5.4 cm) |  |

# Offer Sustainability

| ustainable offer status Green Premium product |   |  |  |
|---|---|--|--|
| 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 |  |  |
| REACh Regulation                              | REACh Declaration   |  |  |
| REACh free of SVHC                            | Yes   |  |  |
| EU RoHS Directive                             | Pro-active compliance (Product out of EU RoHS legal scope) CEU RoHS   |  |  |
| Toxic heavy metal free                        | Yes   |  |  |
| Mercury free                                  | Yes   |  |  |
| RoHS exemption information                    | <b>₫</b> Yes  |  |  |
| China RoHS Regulation                         | China RoHS Declaration  |  |  |
| Environmental Disclosure                      | Product Environmental Profile   |  |  |
| Circularity Profile                           | Provide the Information   |  |  |
|   |   |  |  |

## Contractual warranty

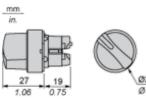
Warranty

18 months

Product data sheet **Dimensions Drawings** 

**ZB5AD306** 

#### Dimensions



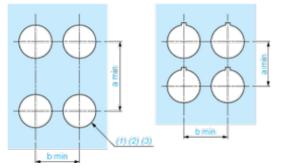




# ZB5AD306

#### 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



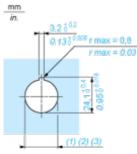
(1) Diameter on finished panel or support

(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.  $_{0}^{+0.016}$ )

| 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**



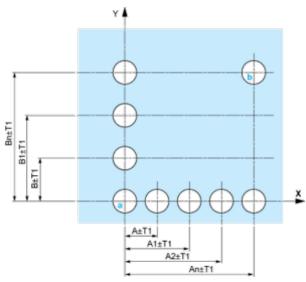
(1) Diameter on finished panel or support

(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)

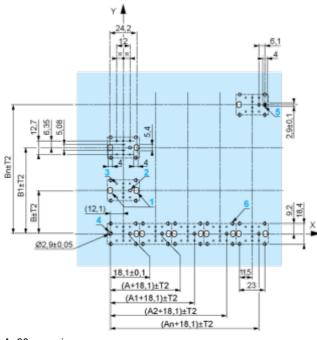


A: 30 mm min. / 1.18 in. min.

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

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

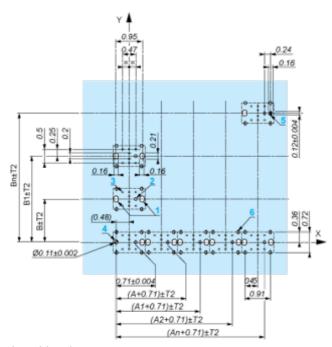
Dimensions in mm



A: 30 mm min.

B: 40 mm min.

Dimensions in in.







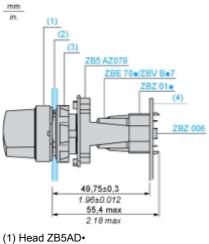
#### General Tolerances of the Panel and Printed Circuit Board

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).
  - 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.



- (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.

ZB5AD306

Electrical Composition Corresponding to Code C3

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 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

# Sequence of Contacts Fitted to 3-position Selector Switch Body

## Position 315°



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

#### Position 45°



| <u> </u> |                  |        |        |        |        |
|----------|------------------|--------|--------|--------|--------|
| Push     | Position         | Тор    |        |        |        |
| Bottom   | $\bigtriangleup$ |        | ·      |        |        |
| Location |                  | Left   | Centre | Right  |        |
| State    |                  | 0      | 1      | 1      |        |
| Contacts | N/O              |        | open   | closed | closed |
| N/C      |                  | closed | open   | open   |        |