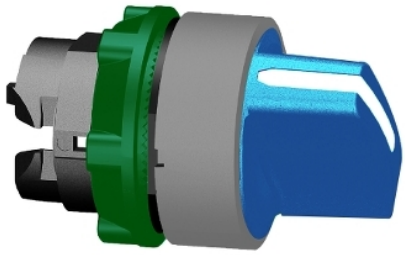
# Product data sheet
## Characteristics

# ZB5AD706C0
## Harmony XB5, Selector switch head, plastic, blue, Ø22, 3 positions, spring return from left to center, grey bezel



### Main

| | |
|---|---|
| Range of Product | Harmony XB5 |
| Product or Component Type | Head for selector switch |
| Device short name | ZB5 |
| Bezel material | Plastic colour plated grey |
| Mounting diamete | 0.87 in (22 mm) |
| Head type | Standard |
| Sale per indivisible quantity | 1 |
| Shape of signaling unit head | Round |
| Type of operator | Left to centre spring return |
| Operator profile | Blue standard handle |
| Operator position information | 3 positions +/- 45° |

### 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 1...5 cut-outs<br>XALK 2...5 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 | -40…158 °F (-40…70 °C) |
| Ambient air temperature for operation | -40…158 °F (-40…70 °C) |
| Overvoltage category | Class II IEC 60536 |
| IP degree of protection | IP67 IEC 60529 |
| 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 conforming to IEC 50102 |
| Product Certifications | LROS (Lloyds register of shipping)[RETURN]GL[RETURN]CSA[RETURN]UL Listed[RETURN]BV[RETURN]DNV |
| Vibration resistance | 5 gn 2…500 Hz)IEC 60068-2-6 |
| Shock resistance | 30 gn 18 ms) half sine wave acceleration IEC 60068-2-27<br>50 gn 11 ms) half sine wave acceleration IEC 60068-2-27 |

## Ordering and shipping details

| | |
|---|---|
| Category | US10CS222467 |
| Discount Schedule | 0CS2 |
| GTIN | 3606489763725 |
| Returnability | No |
| Country of origin | FR |

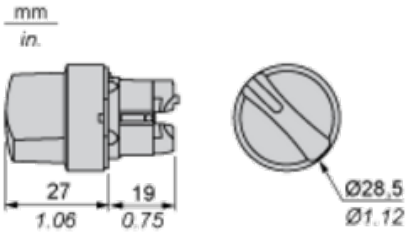
## Packing Units

| | |
|---|---|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 1.65 in (4.2 cm) |
| Package 1 Width | 1.30 in (3.3 cm) |
| Package 1 Length | 2.05 in (5.2 cm) |
| Package 1 Weight | 0.85 oz (24.0 g) |

## Offer Sustainability

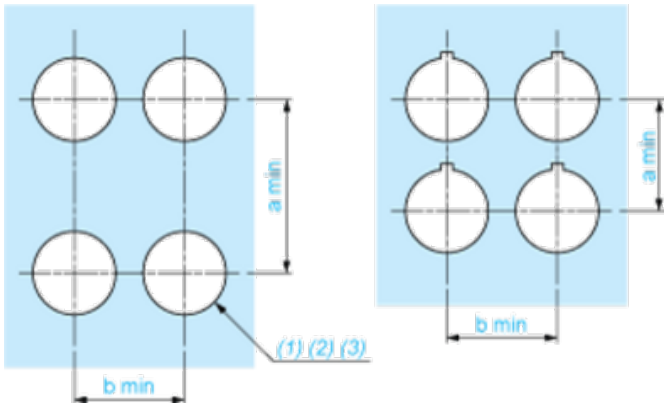
| | |
|---|---|
| California proposition 65 | WARNING: This product can expose you to chemicals including: Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov |
| REACh Regulation | REACh Declaration |
| REACh free of SVHC | Yes |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| Toxic heavy metal free | Yes |
| Mercury free | Yes |
| China RoHS Regulation | China RoHS Declaration |
| RoHS exemption information | Yes |

## 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



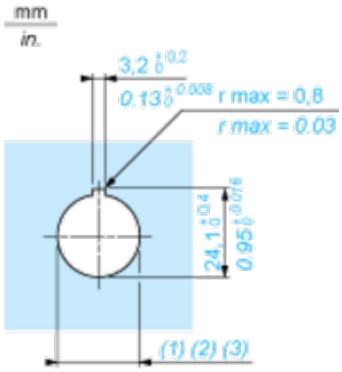

(1) Diameter on finished panel or support

(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

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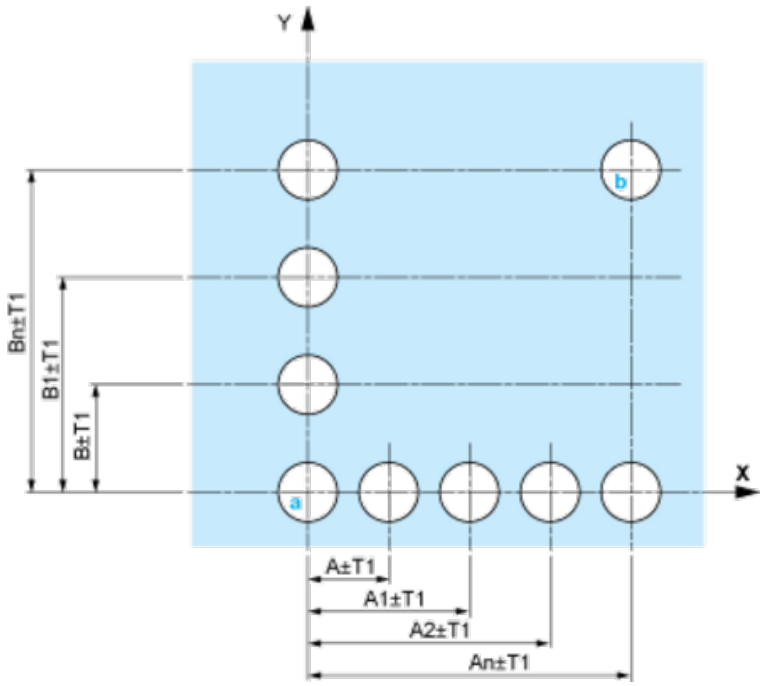
(3) Ø22.5 mm recommended (Ø22.3 $_{0}^{+0.4}$) / Ø0.89 in. recommended (Ø0.88 in. $_{0}^{+0.016}$)

## Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

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

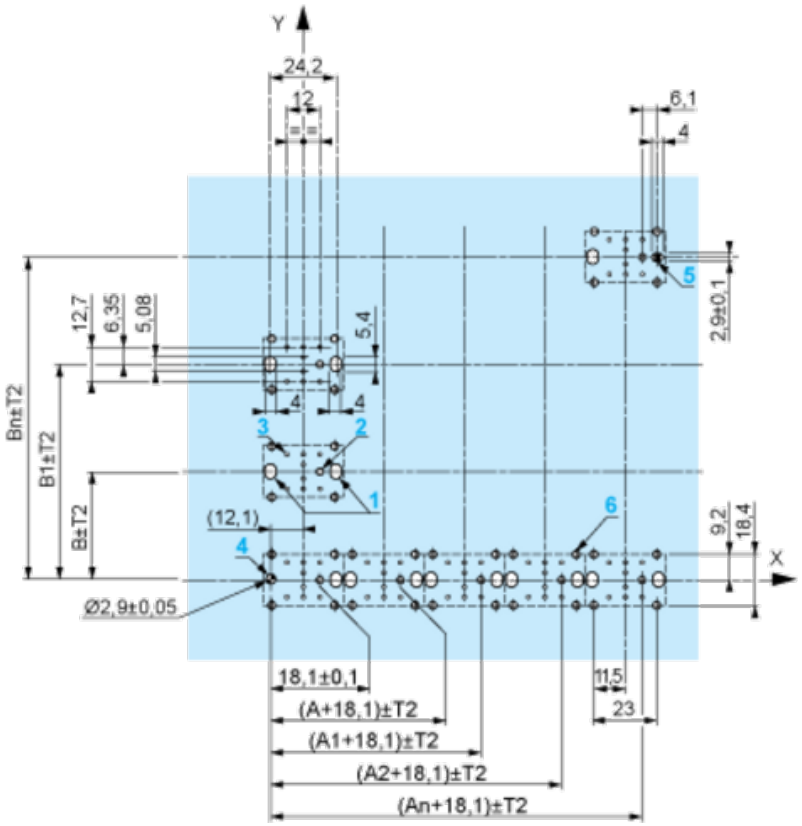



A: 30 mm min. / 1.18 in. min.

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

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

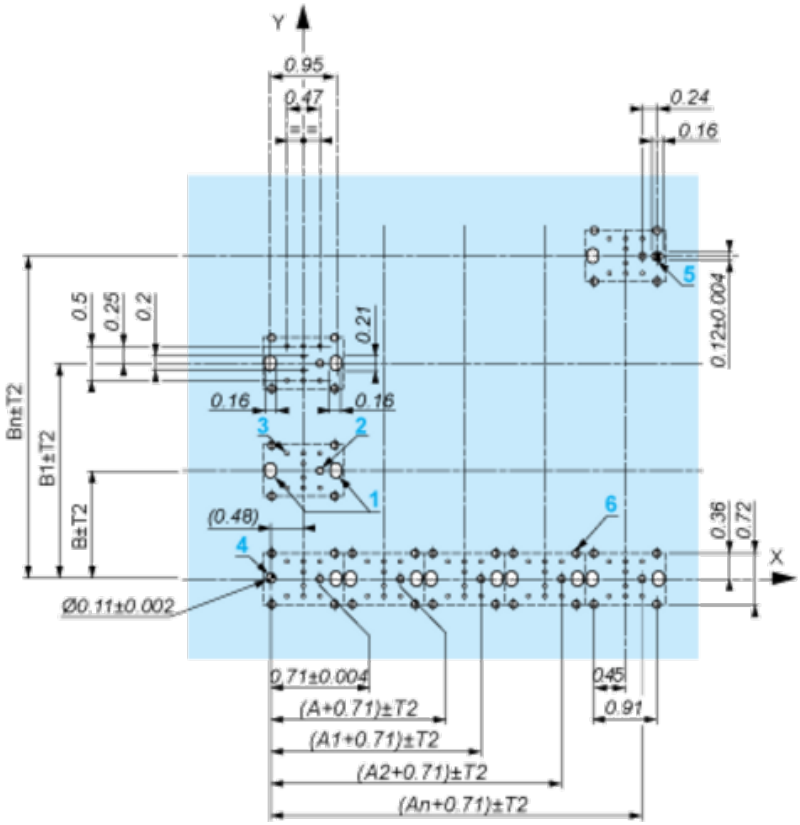
Dimensions in mm




A: 30 mm min.

B: 40 mm min.

Dimensions in in.




A: 1.18 in. min.

B: 1.57 in. min.

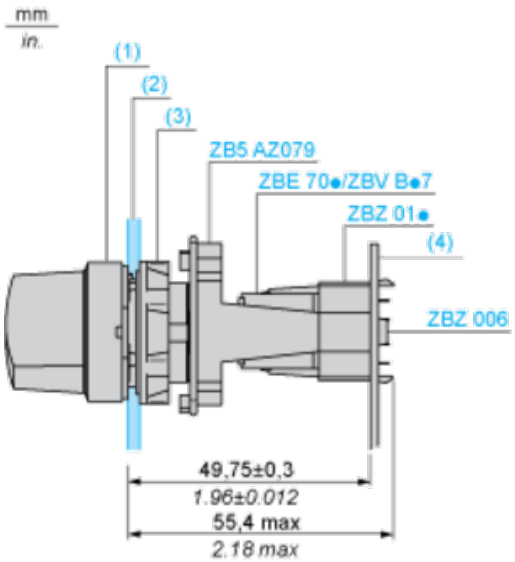
## General Tolerances of the Panel and Printed Circuit Board

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:
  - 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

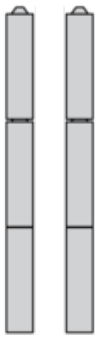
(4) Printed circuit board

## Mounting of Adapter (Socket) ZBZ01•

- 1 2 elongated holes for ZBZ006 screw access
- 2 1 hole 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
- 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•

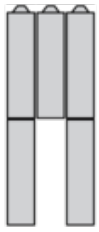
Dimensions An + 18.1 relate to the Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 holes for centring adapter ZBZ01•.

## 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 Code C8

## 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 | Top | | | |
| Bottom | | | | | |
| Location | | Left | Centre | Right | |
| State | | 1 | 1 | 0 | |
| Contacts | N/O | | closed | closed | open |
| N/C | | open | open | closed | |

### Position 0°


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

### Position 45°


| | | | | |
|---|---|---|---|---|
| Push | Position | Top | | |
| Bottom | | | | |
| Location | | Left | Centre | Right |

| | | | | | |
|---|---|---|---|---|---|
| State | | 0 | 1 | 1 | |
| Contacts | N/O | | open | closed | closed |
| N/C | | closed | open | open | |