

# ZB5AK1313C0

Harmony XB5, Illuminated selector switch head, plastic, white, Ø22, integral LED, 3 positions, stay put, grey bezel



## Main

|                               |                                      |
|-------------------------------|--------------------------------------|
| Range of product              | Harmony XB5                          |
| Product or component type     | Head for illuminated selector switch |
| Product compatibility         | Integral LED                         |
| Device short name             | ZB5                                  |
| Bezel material                | Plastic colour plated grey           |
| Mounting diameter             | 22 mm                                |
| Head type                     | Standard                             |
| Sale per indivisible quantity | 1                                    |
| Shape of signaling unit head  | Round                                |
| Type of operator              | Stay put                             |
| Operator profile              | White standard handle                |
| Operator position information | 3 positions +/- 45°                  |

## Complementary

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAD overall width           | 29 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| CAD overall height          | 29 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| CAD overall depth           | 43 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Net weight                  | 0.016 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Mechanical durability       | 1000000 cycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Station name                | XALD 1...5 cut-outs<br>XALK 2...5 cut-outs                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Electrical composition code | M3 for <4 contacts using single blocks in front mounting with integral LED<br>M6 for <2 contacts using single blocks in front mounting with integral LED and transformer<br>M10 for <2 contacts using single blocks in front mounting with integral LED<br>MF1 for <2 contacts using single blocks in front mounting with integral LED<br>MR1 for <2 contacts using single blocks in rear mounting with integral LED<br>M4 for <4 contacts using single and double blocks in front mounting with integral LED |
| Device presentation         | Basic element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## Environment

|                                       |                                       |
|---------------------------------------|---------------------------------------|
| Protective treatment                  | TH                                    |
| Ambient air temperature for storage   | -40...70 °C                           |
| Ambient air temperature for operation | -40...70 °C                           |
| Overvoltage category                  | Class II conforming to IEC 60536      |
| IP degree of protection               | IP66 conforming to IEC 60529<br>IP67  |
| NEMA degree of protection             | NEMA 13<br>NEMA 4X                    |
| Resistance to high pressure washer    | 7000000 Pa at 55 °C, distance : 0.1 m |
| IK degree of protection               | IK06 conforming to IEC 50102          |

|                        |                                                                                                                                                                                |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards              | EN/IEC 60947-1<br>EN/IEC 60947-5-1<br>UL 508<br>CSA C22.2 No 14<br>EN/IEC 60947-5-5<br>JIS C8201-5-1<br>EN/IEC 60947-5-4<br>JIS C8201-1                                        |
| Product certifications | CSA<br>UL listed<br>RINA<br>DNV<br>LROS (Lloyds register of shipping)<br>GL<br>BV                                                                                              |
| Vibration resistance   | 5 gn (f= 2...500 Hz) conforming to IEC 60068-2-6                                                                                                                               |
| Shock resistance       | 30 gn (duration = 18 ms) for half sine wave acceleration conforming to IEC 60068-2-27<br>50 gn (duration = 11 ms) for half sine wave acceleration conforming to IEC 60068-2-27 |

### Packing Units

|                  |          |
|------------------|----------|
| Package 1 Weight | 23.000 g |
| Package 1 Height | 4.200 cm |
| Package 1 width  | 3.300 cm |
| Package 1 Length | 5.200 cm |

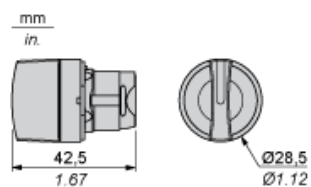
### Offer Sustainability

|                            |                                                                                                |
|----------------------------|------------------------------------------------------------------------------------------------|
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                              |
| REACH free of SVHC         | Yes                                                                                            |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a> |
| Toxic heavy metal free     | Yes                                                                                            |
| Mercury free               | Yes                                                                                            |
| RoHS exemption information | <a href="#">Yes</a>                                                                            |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>                                                         |

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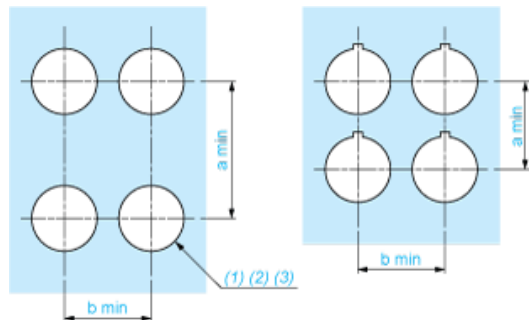
Dimensions

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

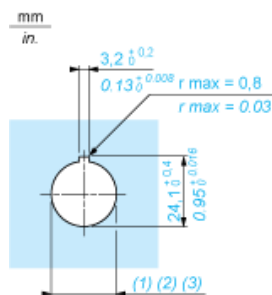
### Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (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)  $\varnothing 22.5$  mm recommended ( $\varnothing 22.3 \text{ }_0^{+0.4}$ ) /  $\varnothing 0.89$  in. recommended ( $\varnothing 0.88 \text{ in. }_0^{+0.016}$ )

| 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     |

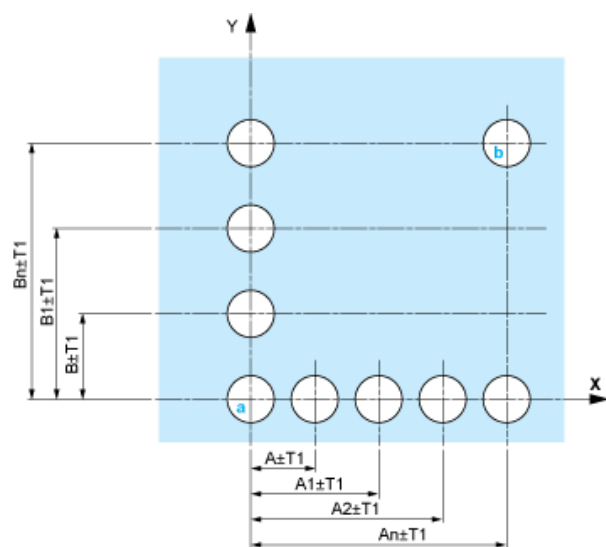
### Detail of Lug Recess



- (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)  $\varnothing 22.5$  mm recommended ( $\varnothing 22.3 \text{ }_0^{+0.4}$ ) /  $\varnothing 0.89$  in. recommended ( $\varnothing 0.88 \text{ in. }_0^{+0.016}$ )

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

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

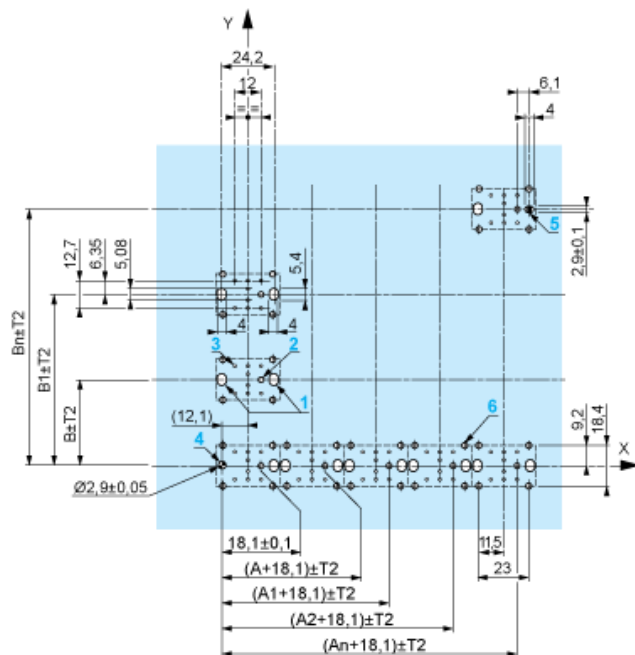


A: 30 mm min. / 1.18 in. min.

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.

Technical drawing of the ZBE 70/ZBV B 7 assembly. The drawing shows a cross-section of the assembly with various components labeled. The dimensions are given in mm and inches.

Labels and dimensions:

- (1) ZB5 AZ079
- (2) ZBE 70/ZBV B 7
- (3) ZBZ 01
- (4) ZBZ 006
- 49.75 ± 0.3
- 1.96 ± 0.012
- 55.4 max
- 2.18 max

- Life Is On | Schneider Electric

### Mounting of Adapter (Socket) ZBZ01•

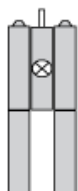
- 1 2 elongated holes for ZBZ006 screw access
- 2 1 hole  $\varnothing 2.4 \text{ mm} \pm 0.05 / 0.09 \text{ in.} \pm 0.002$  for centring adapter ZBZ01•
- 3 8  $\times \varnothing 1.2 \text{ mm} / 0.05 \text{ in.}$  holes
- 4 1 hole  $\varnothing 2.9 \text{ mm} \pm 0.05 / 0.11 \text{ in.} \pm 0.002$ , 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  $\varnothing 2.4 \text{ mm} / 0.09 \text{ in.}$  for clipping in adapter ZBZ01•

Dimensions An + 18.1 relate to the  $\varnothing 2.4 \text{ mm} \pm 0.05 / 0.09 \text{ in.} \pm 0.002$  holes for centring adapter ZBZ01•.

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Electrical Composition Corresponding to Code M3

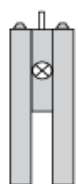
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Electrical Composition Corresponding to Code M4

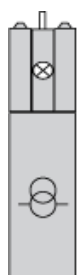
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Electrical Composition Corresponding to Codes M6 and P2

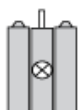
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Electrical Composition Corresponding to Codes M5, M10, MF1, MR1 and MF2

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Legend

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

### Position 0°



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

Position 45°



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