

## ZB5AK1583C0

Harmony XB5, Illuminated selector switch head, plastic, yellow, Ø22, integral LED, 3 positions, spring return to center, 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                                |
| Sale per indivisible quantity | 1                                    |
| Shape of signaling unit head  | Round                                |
| Type of operator              | To centre spring return              |
| Operator profile              | Yellow 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          |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

|                        |  |
|------------------------|--|
| Standards              | EN/IEC 60947-5-5<br>EN/IEC 60947-1<br>JIS C8201-5-1<br>EN/IEC 60947-5-4<br>UL 508<br>CSA C22.2 No 14<br>EN/IEC 60947-5-1<br>JIS C8201-1  |
| Product certifications | LROS (Lloyds register of shipping)<br>CSA<br>UL listed<br>RINA<br>BV<br>DNV<br>GL  |
| 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 | 24.000 g |
| Package 1 Height | 4.200 cm |
| Package 1 width  | 3.300 cm |
| Package 1 Length | 5.200 cm |

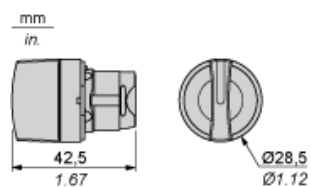
### Offer Sustainability

|                            |  |
|----------------------------|--|
| 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.

[illegible]

Technical drawing of the ZBE 70/ZBV B 7 assembly. The drawing shows a side view of the assembly with various components labeled. The dimensions are as follows:

- Overall length:  $49.75 \pm 0.3$
- Distance from front face to center of ZB5 AZ079:  $1.96 \pm 0.012$
- Distance from front face to center of ZBE 70/ZBV B 7:  $55.4 \text{ max}$
- Distance from front face to center of ZBZ 01:  $2.18 \text{ max}$

Labels and callouts:

- (1) ZB5 AZ079
- (2) ZBE 70/ZBV B 7
- (3) ZBZ 01
- (4) ZBZ 006

Scale: mm / in.

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### Mounting of Adapter (Socket) ZBZ01•

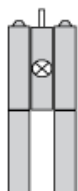
- 1 2 elongated holes for ZBZ006 screw access
- 2 1 hole  $\varnothing 2.4 \text{ mm} \pm 0.05 / 0.09 \text{ in.} \pm 0.002$  for centring adapter ZBZ01•
- 3 8  $\times \varnothing 1.2 \text{ mm} / 0.05 \text{ in.}$  holes
- 4 1 hole  $\varnothing 2.9 \text{ mm} \pm 0.05 / 0.11 \text{ in.} \pm 0.002$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

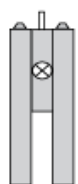
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Electrical Composition Corresponding to Code M4

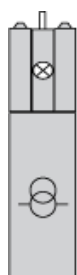
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Electrical Composition Corresponding to Codes M6 and P2

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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  |   |  |