

# ZB5AW353

orange flush illuminated pushbutton head Ø22  
spring return for integral LED



## Main

|                                 |                                 |
|---------------------------------|---------------------------------|
| Range of product                | Harmony XB5                     |
| Product or component type       | Head for illuminated pushbutton |
| Device short name               | ZB5                             |
| Product compatibility           | Integral LED                    |
| Bezel material                  | Plastic                         |
| Mounting diameter               | 22 mm                           |
| Sale per indivisible quantity   | 1                               |
| Shape of signaling unit head    | Round                           |
| Type of operator                | Spring return                   |
| Operator profile                | Orange flush unmarked           |
| Operator additional information | With plain lens                 |

## Complementary

|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAD overall width                  | 29 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| CAD overall height                 | 29 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| CAD overall depth                  | 30 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Product weight                     | 0.017 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Resistance to high pressure washer | 7000000 Pa at 55 °C, distance: 0.1 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Mechanical durability              | 5000000 cycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Station name                       | XALK 2...5 cut-outs<br>XALD 1...5 cut-outs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Electrical composition code        | MR1 for <= 2 contacts using single blocks in rear mounting with integral LED<br>MF1 for <= 2 contacts using single blocks in front mounting with integral LED<br>M10 for <= 2 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>M2 for <= 6 contacts using single and double blocks in front mounting with integral LED<br>M1 for <= 6 contacts using single blocks in front mounting with integral LED |

## Environment

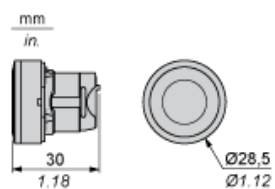
|                                            |                                                                                                                 |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Protective treatment                       | TC                                                                                                              |
| Ambient air temperature for storage        | -40...70 °C                                                                                                     |
| Ambient air temperature for operation      | -25...70 °C                                                                                                     |
| Class of protection against electric shock | Class II conforming to IEC 60536                                                                                |
| IP degree of protection                    | IP66 conforming to IEC 60529                                                                                    |
| NEMA degree of protection                  | NEMA 4X<br>NEMA 13                                                                                              |
| IK degree of protection                    | IK05 conforming to EN 50102                                                                                     |
| Standards                                  | CSA C22-2 No 14<br>EN/IEC 60947-1<br>EN/IEC 60947-5-1<br>EN/IEC 60947-5-4<br>JIS C 4520<br>UL 508<br>GB 14048.5 |

|                        |                                                                                                                                                      |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product certifications | BV<br>CSA<br>DNV<br>GL<br>LROS (Lloyds register of shipping)<br>RINA<br>UL listed                                                                    |
| Vibration resistance   | 5 gn (f = 2...500 Hz) conforming to IEC 60068-2-6                                                                                                    |
| Shock resistance       | 50 gn for 11 ms half sine wave acceleration conforming to IEC 60068-2-27<br>30 gn for 18 ms half sine wave acceleration conforming to IEC 60068-2-27 |

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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     |

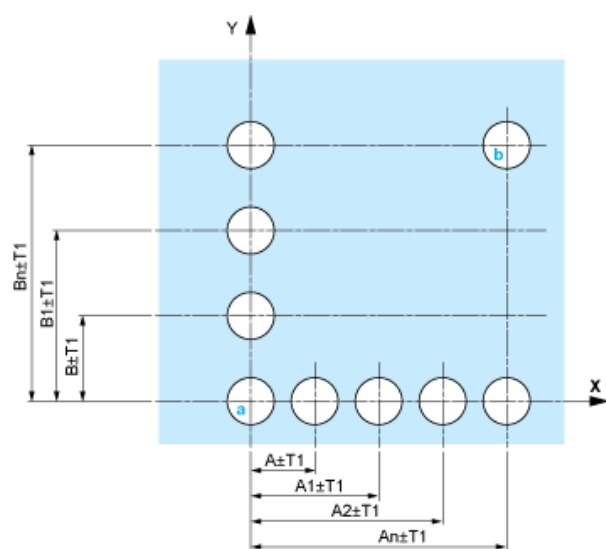
## Detail of Lug Recess



- (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)

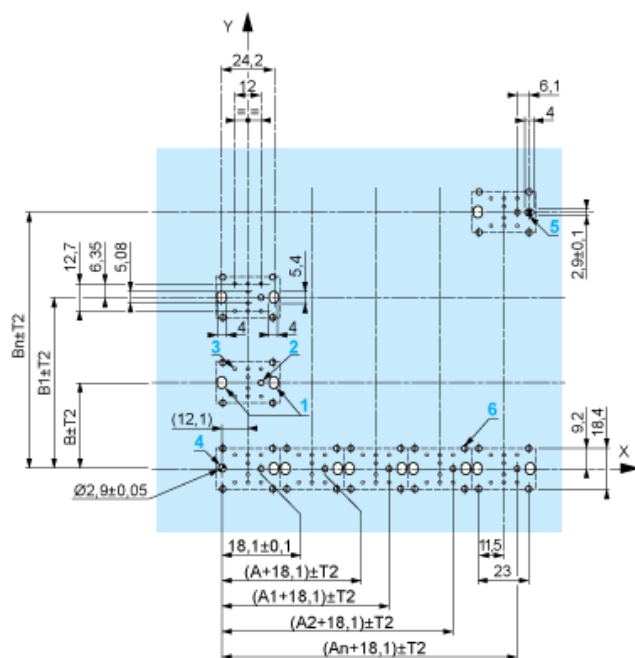


A: 30 mm min. / 1.18 in. min.

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]

The cumulative tolerance must not exceed 0.3 mm / 0.012 in.:  $T1 + T2 = 0.3 \text{ mm max.}$

- 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•).

Technical drawing of the ZBE 70 assembly. The drawing shows a side view of the component with various dimensions and part numbers. The dimensions are:

- 49.75 ± 0.3
- 1.96 ± 0.012
- 55.4 max
- 2.18 max

The part numbers and labels are:

- ZB5 AZ079
- ZBE 70 / ZBV B 7
- ZBZ 01
- ZBZ 006

The drawing also includes a scale bar indicating 1 mm and 1/8 inch.

- 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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