

## ZB5AW333

green flush illuminated pushbutton head Ø22 spring return for integral LED



### Main

|                                 |                                  |
|---------------------------------|----------------------------------|
| Range of product                | Harmony XB5                      |
| Product or component type       | Head for illuminated push-button |
| 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                | Green 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              | 10000000 cycles   |
| Station name                       | XALD 1...5 cut-outs<br>XALK 2...5 cut-outs  |
| Electrical composition code        | M1 for <= 6 contacts using single blocks in front mounting with integral LED<br>M2 for <= 6 contacts using single and double 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>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 |

### Environment

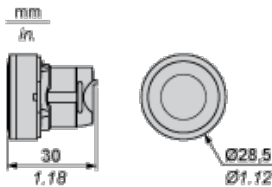
|  |   |
|--|---|
| protective treatment                       | TC  |
| ambient air temperature for storage        | -40...70 °C   |
| ambient air temperature for operation      | -40...70 °C   |
| class of protection against electric shock | Class II conforming to IEC 60536  |
| overvoltage category                       | Class II conforming to IEC 60536  |
| IP degree of protection                    | IP67<br>IP66 conforming to IEC 60529<br>IP69K<br>IP69   |
| NEMA degree of protection                  | NEMA 13<br>NEMA 4X  |
| IK degree of protection                    | IK05 conforming to EN 50102   |
| standards                                  | 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<br>CSA C22.2 No 14 |
| product certifications                     | BV<br>CSA<br>DNV  |

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GL  
LROS (Lloyds register of shipping)  
RINA  
UL listed

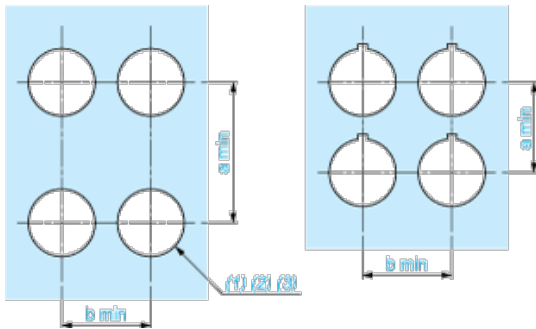
|                      |  |
|----------------------|--|
| vibration resistance | 5 gn (f = 2...500 Hz) conforming to IEC 60068-2-6  |
| shock resistance     | 30 gn (duration = 18 ms) for half sine wave acceleration conforming to IEC 60068-2-27<br>50 gn (duration = 11 ms) for half sine wave acceleration conforming to IEC 60068-2-27 |

## Dimensions



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

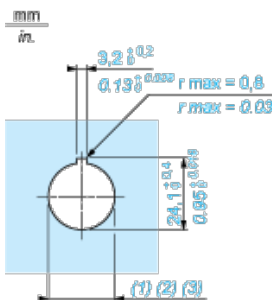
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (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 ( $\text{Ø}22.3_{0}^{+0.4}$ ) / Ø0.89 in. recommended ( $\text{Ø}0.89_{0}^{+0.016}$ )

| 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

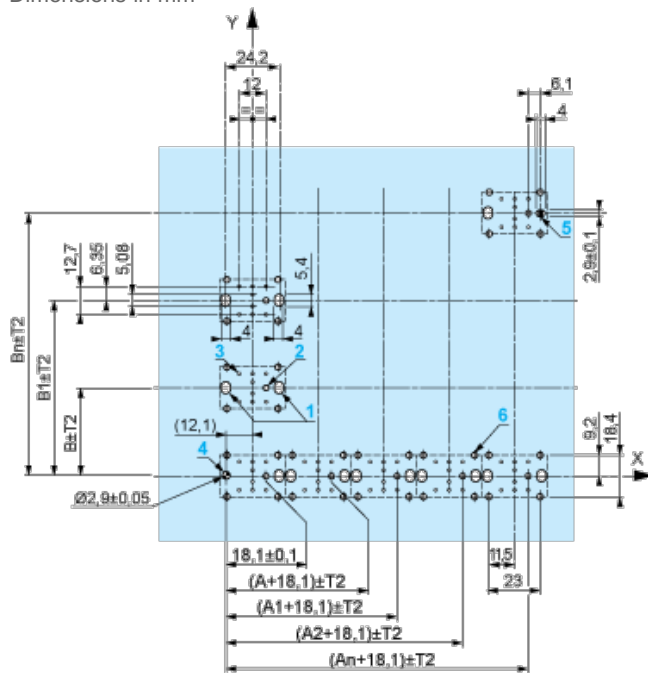


- (1) Diameter on finished panel or support
- (2) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.
- (3) Ø22.5 mm recommended ( $\text{Ø}22.3_{0}^{+0.4}$ ) / Ø0.89 in. recommended ( $\text{Ø}0.89_{0}^{+0.016}$ )

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

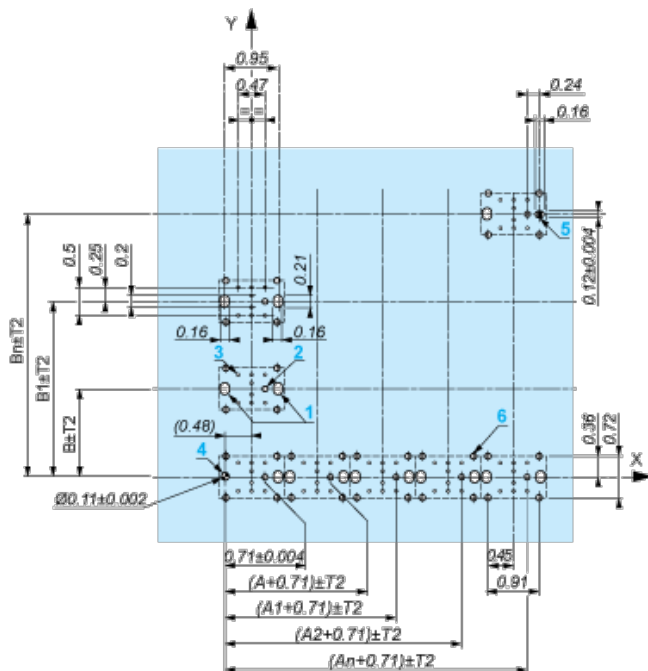
**B:** 40 mm min. / 1.57 in. min.

Dimensions in mm



**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.:  $T1 + T2 = 0.3 \text{ mm max.}$

### Installation Precautions

- | Minimum thickness of circuit board: 1.6 mm / 0.06 in.
- | Cut-out diameter: 22.4 mm  $\pm 0.1$  / 0.88 in.  $\pm 0.004$
- | Orientation of body/fixing collar ZB5AZ009:  $\pm 2^\circ 30'$  (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
- (3) Nut
- (4) Printed circuit board

### 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 in.  $\pm 0.002$  for centring adapter ZBZ01•
- | 3 8  $\times \varnothing 1.2 \text{ mm}$  / 0.05 in. holes
- | 4 1 hole  $\varnothing 2.9 \text{ mm} \pm 0.05$  / 0.11 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 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•.