

Product availability: Stock - Normally stocked in distribution facility



### Main

|                                 |                      |
|---------------------------------|----------------------|
| Range of product                | Harmony XB5          |
| Product or component type       | Head for pilot light |
| Product compatibility           | BA 9s                |
| Device short name               | ZB5                  |
| Bezel material                  | Plastic              |
| Mounting diameter               | 0.87 in (22 mm)      |
| Head type                       | Standard             |
| Sale per indivisible quantity   | 1                    |
| Shape of signaling unit head    | Round                |
| Cap/operator or lens colour     | Yellow               |
| Operator additional information | With plain lens      |

### Complementary

|                             |                                                                                                                        |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------|
| CAD overall width           | 1.14 in (29 mm)                                                                                                        |
| CAD overall height          | 1.14 in (29 mm)                                                                                                        |
| CAD overall depth           | 1.22 in (31 mm)                                                                                                        |
| Product weight              | 0.04 lb(US) (0.018 kg)                                                                                                 |
| Station name                | XALD 1...5 cut-outs<br>XALK 2...5 cut-outs                                                                             |
| Electrical composition code | P3 in front mounting with BA 9s<br>P4 in front mounting with BA 9s and transformer<br>PF2 in front mounting with BA 9s |

### 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               | IP69 conforming to IEC 60529<br>IP69K conforming to ISO 20653<br>IP66 conforming to IEC 60529<br>IP67 conforming to IEC 60529                                          |
| NEMA degree of protection             | NEMA 13<br>NEMA 4X                                                                                                                                                     |
| Resistance to high pressure washer    | 1015.26 psi (7000000 Pa) at 131 °F (55 °C), distance: 0.1 m                                                                                                            |
| IK degree of protection               | IK05 conforming to IEC 50102                                                                                                                                           |
| Standards                             | CSA C22.2 No 14<br>JIS C 4520<br>EN/IEC 60947-5-4<br>EN/IEC 60947-5-5<br>UL 508<br>EN/IEC 60947-1<br>EN/IEC 60947-5-1                                                  |
| Vibration resistance                  | 5 gn (f = 2...500 Hz) conforming to IEC 60068-2-6                                                                                                                      |
| Shock resistance                      | 30 gn (duration = 18 ms) half sine wave acceleration conforming to IEC 60068-2-27<br>50 gn (duration = 11 ms) half sine wave acceleration conforming to IEC 60068-2-27 |

### Ordering and shipping details

|                       |                                       |
|-----------------------|---------------------------------------|
| Category              | 22467 - PUSHBUTTONS,22MM(PLASTIC) NEW |
| Discount Schedule     | CS2                                   |
| GTIN                  | 00785901355120                        |
| Nbr. of units in pkg. | 1                                     |
| Package weight(Lbs)   | 2.999999999999999E-2                  |
| Returnability         | Y                                     |
| Country of origin     | FR                                    |

### Offer Sustainability

|                            |                                                                                                                                  |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| California proposition 65  | WARNING: This product can expose you to chemicals including:                                                                     |
| - - - - - Substance 1      | Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. |
| - - - - - More information | For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                                    |

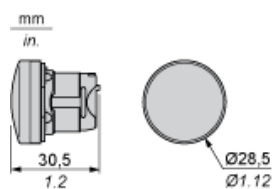
### Contractual warranty

|                 |           |
|-----------------|-----------|
| Warranty period | 18 months |
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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.

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  
(2) Nut  
(4) Printed circuit board

### Mounting of Adapter (Socket) ZBZ01•

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

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

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Electrical Composition Corresponding to Codes P1, P3, PF1, PR1 and PF2

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Light block



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Electrical Composition Corresponding to Code P4

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Legend

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Single contact



Double contact



Light block



Possible location



# Mouser Electronics

Authorized Distributor

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[ZB5AV05](#)