

# Product data sheet Characteristics

# ZB5AW35S orange flush illuminated pushbutton head Ø22 spring return for BA9s bulb





Main				
Range of product	Harmony XB5			
Product or component type	Head for illuminated push-button			
Device short name	ZB5			
Product compatibility	BA 9s			
Bezel material	Dark grey plastic			
Mounting diameter	22 mm			
Sale per indivisible quantity	1			
Head type	Standard			
Shape of signaling unit head	Round			
Type of operator	Spring return			
Operator profile	Orange flush, unmarked			
Operator additional information	With grooved lens			
Environmental characteristic	High ambient lighting environment			

#### Complementary

Device presentation	Basic sub-assemblies			
Electrical composition code	M7 for <6 contacts using single blocks in front mounting with BA 9s M8 for <6 contacts using single and double blocks in front mounting with BA 9s M9 for <2 contacts using single blocks in front mounting with BA 9s and transformer MF2 for <2 contacts using single blocks in front mounting with BA 9s			
Marking	Unmarked			
Cap/operator or lens colour	Orange			
Station name	XALD 15 cut-outs XALK 25 cut-outs			
Group of product	Flush push BA9s			
Main group	Illum push-button			
Mechanical durability	10000000 cycles			
Resistance to high pressure washer	7000000 Pa at 55 °C, distance : 0.1 m			
Net weight	0.018 kg			
CAD overall depth	32 mm			
CAD overall height	29 mm			
CAD overall width	29 mm			
CAD overall width	29 mm			

### Environment

TC				
-4070 °C				
-4055 °C				
Class II conforming to IEC 60536				
IP66 conforming to IEC 60529 IP67 IP69 IP69K				
NEMA 13 NEMA 4X				
IK05 conforming to EN 50102				
UL 508 JIS C8201-5-1 EN/IEC 60947-5-4 EN/IEC 60947-1 GB 14048.5 EN/IEC 60947-5-1 CSA C22.2 No 14 JIS C8201-1				
GL[RETURN]UL listed[RETURN]CSA[RETURN]LROS (Lloyds register of shipping)[RETURN]DNV[RETURN]BV				
5 gn (f= 2500 Hz) conforming to IEC 60068-2-6				
30 gn (duration = 18 ms) for half sine wave acceleration conforming to IEC 60068-2-27 50 gn (duration = 11 ms) for half sine wave acceleration conforming to IEC 60068-2-27				

# Offer Sustainability

Sustainable offer status	Green Premium product				
REACh Regulation	REACh Declaration				
REACh free of SVHC	Yes				
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) Declaration				
Toxic heavy metal free	Yes				
Mercury free	Yes				
China RoHS Regulation	China RoHS Declaration				
RoHS exemption information	<b>₫</b> Yes				
Environmental Disclosure	Product Environmental Profile				
Circularity Profile	Provide the Information				

## Contractual warranty

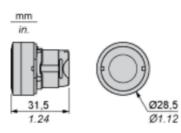
Warranty

18 months

Product data sheet Dimensions Drawings

# ZB5AW35S

## Dimensions

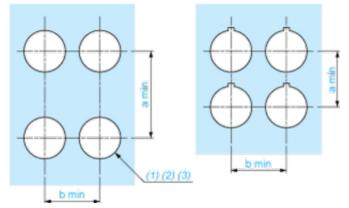




# ZB5AW35S

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

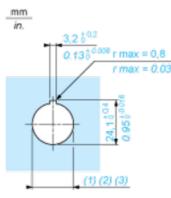
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (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 (Ø22.3  $_0^{+0.4}$ ) / Ø0.89 in. recommended (Ø0.88 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) Ø22.5 mm recommended (Ø22.3  $_0$  <sup>+0.4</sup>) / Ø0.89 in. recommended (Ø0.88 in.  $_0$  <sup>+0.016</sup>)

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

#### Life Is On Schneider

#### 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 mm max.

#### Installation Precautions

- 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•).

The fixing centers marked a and b are diagonally opposed and must align with those marked 4 and 5.



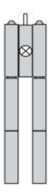
#### Mounting of Adapter (Socket) ZBZ01•

- 1 2 elongated holes for ZBZ006 screw access
- 2 1 hole Ø 2.4 mm  $\pm$  0.05 / 0.09 in.  $\pm$  0.002 for centring adapter ZBZ01•
- 38 × Ø 1.2 mm / 0.05 in. holes
- 4 1 hole Ø 2.9 mm ± 0.05 / 0.11 in. ± 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•

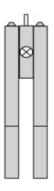
Dimensions An + 18.1 relate to the Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 holes for centring adapter ZBZ01•.

# ZB5AW35S

### Electrical Composition Corresponding to Codes M1 and M7



Electrical Composition Corresponding to Codes M2 and M8



Electrical Composition Corresponding to Code M9



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



#### Legend



Single contact

Double contact

Light block

#### Possible location