Product data sheet

Specifications





Head for pilot light, Harmony XB5, metal, white, 22mm, plain lens for BA9s bulb

ZB5AV01

Main

Range Of Product	Harmony XB5
Product Or Component Type	Head for pilot light
Product Compatibility	BA 9s
Device Short Name	ZB5
Bezel Material	Dark grey plastic
Mounting Diameter	22 mm
Head Type	Standard
Sale Per Indivisible Quantity	1
Shape Of Signaling Unit Head	Round
Cap/Operator Or Lens Colour	White
Operator Additional Information	With plain lens

Complementary

Cad Overall Width	29 mm
Cad Overall Height	29 mm
Cad Overall Depth	31 mm
Net Weight	0.018 kg
Station Name	XALD 15 cut-outs XALK 25 cut-outs
Electrical Composition Code	P3 in front mounting with BA 9s P4 in front mounting with BA 9s and transformer PF2 in front mounting with BA 9s
Device Presentation	Basic element

Environment

Protective Treatment	TH
Ambient Air Temperature For Storage	-4070 °C
Ambient Air Temperature For Operation	-4070 °C
Overvoltage Category	Class II conforming to IEC 60536
Ip Degree Of Protection	IP66 conforming to IEC 60529 IP67 conforming to IEC 60529 IP69 conforming to IEC 60529 IP69K conforming to ISO 20653
Nema Degree Of Protection	NEMA 13 NEMA 4X

Resistance To High Pressure Washer	7000000 Pa at 55 °C, distance : 0.1 m			
Ik Degree Of Protection	IK05 conforming to IEC 50102			
Standards	IEC 60947-1			
	IEC 60947-5-4			
	UL 508			
	JIS C8201-5-1			
	IEC 60947-5-1			
	CSA C22.2 No 14			
	IEC 60947-5-5			
	JIS C8201-1			
Vibration Resistance	5 gn (f= 2500 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			
	50 gn (duration = 11 ms) for half sine wave acceleration conforming to IEC			
	60068-2-27			

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	3.500 cm
Package 1 Width	4.700 cm
Package 1 Length	5.300 cm
Package 1 Weight	15.000 g
Unit Type Of Package 2	BB1
Number Of Units In Package 2	5
Package 2 Height	4.500 cm
Package 2 Width	3.400 cm
Package 2 Length	26.500 cm
Package 2 Weight	76.000 g
Unit Type Of Package 3	S03
Number Of Units In Package 3	300
Package 3 Height	30.000 cm
Package 3 Width	30.000 cm
Package 3 Length	40.000 cm
Package 3 Weight	4.969 kg

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance

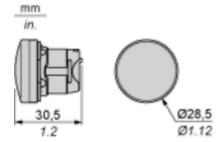
⊘	Reach Free Of Svhc	
②	Toxic Heavy Metal Free	
9	Mercury Free	
⊘	Rohs Exemption Information	Yes

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

Dimensions Drawings

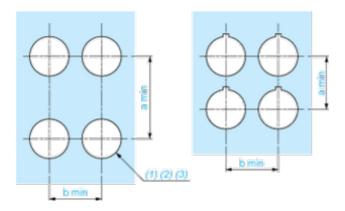
Dimensions



Mounting and Clearance

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

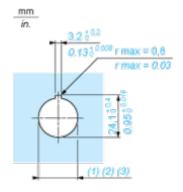
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (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. $_0^{+0.016}$)

				0
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

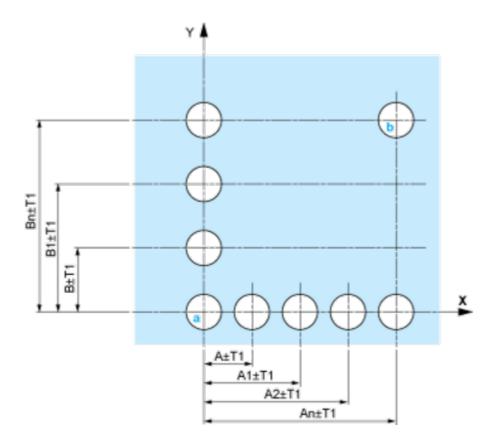
Detail of Lug Recess



- (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 $_0^{+0.4}$) / Ø0.89 in. recommended (Ø0.88 in. $_0^{+0.016}$)

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

Panel Cut-outs (Viewed from Installer's Side)

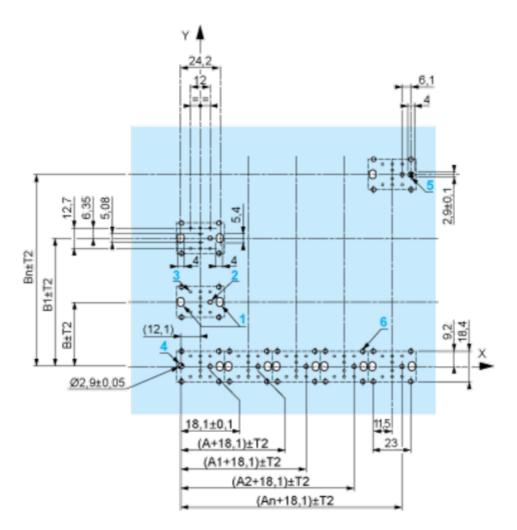


A: 30 mm min. / 1.18 in. min. **B:** 40 mm min. / 1.57 in. min.

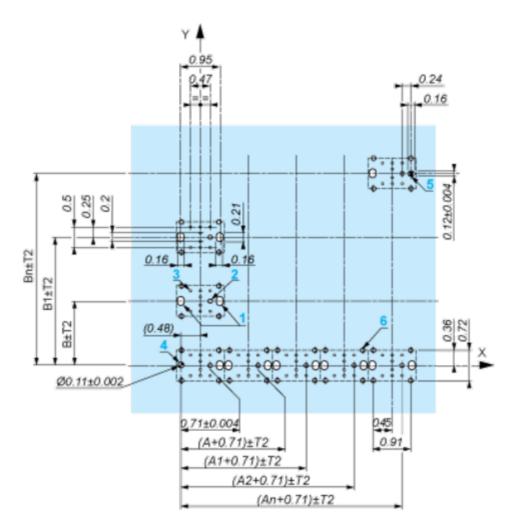
Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

Dimensions in mm

ZB5AV01



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

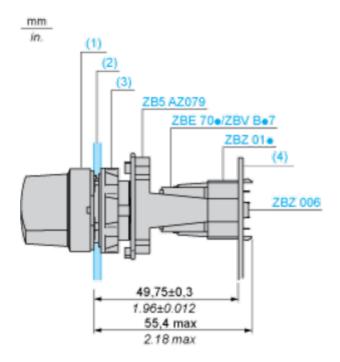
The cumulative tolerance must not exceed 0.3 mm / 0.012 in.: T1 + T2 = 0.3 mm max.

Installation Precautions

- $_{\bullet}\,$ 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:
 - $_{\circ}\;$ every 90 mm / 3.54 in. horizontally (X), and 120 mm / 4.72 in. vertically (Y).
 - o 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.

ZB5AV01



- (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 Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 for centring adapter ZBZ01•
- 3 8 × 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 \pm 0.05 / 0.09 in. \pm 0.002 holes for centring adapter ZBZ01•.

ZB5AV01

Technical Description

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

Light block



Electrical Composition Corresponding to Code P4



Legend

Single contact



Double contact



Light block



Possible location

