Product data sheet Characteristics

ZB5CV013

square white pilot light head Ø22 plain lens for integral LED



Main

Main		s
Range of product	Harmony XB5	abo ications ications
Product or component type	Head for pilot light	a e
Product compatibility	Integral LED	ة ت ي
Device short name	ZB5	
Bezel material	Plastic	د ان ان
Mounting diameter	22 mm	
Head type	Standard	
Sale per indivisible quantity	1	: ۲ ۵
Shape of signaling unit head	Square	
Cap/Operator or lens colour	White	reliability.
Operator additional information	With plain lens	

Complementary

30 mm			
30 mm			
29 mm			
0.02 kg			
XALD 15 cut-outs XALK 25 cut-outs			
ectrical composition code P1 in front mounting with integral LED P2 in front mounting with integral LED and transformer PF1 in front mounting with integral LED PF1 in front mounting with integral LED PR1 in rear mounting with integral LED			
TH			
-4070 °C			
-2570 °C			
Class II IEC 60536			
IP66 conforming to IEC 60529			
NEMA 13 NEMA 4X			
	30 mm 29 mm 0.02 kg XALD 15 cut-outs XALK 25 cut-outs P1 in front mounting with integral LED P2 in front mounting with integral LED and transformer PF1 in front mounting with integral LED PR1 in rear mounting with integral LED PR1 in rear mounting with integral LED TH -4070 °C -2570 °C Class II IEC 60536 IP66 conforming to IEC 60529		

Environment

Protective treatment	TH	
Ambient air temperature for storage	-4070 °C	
Ambient air temperature for operation	-2570 °C	1 1 1 1 1
Overvoltage category	Class II IEC 60536	
IP degree of protection	IP66 conforming to IEC 60529	 . <u></u>
NEMA degree of protection	NEMA 13 NEMA 4X	Ê

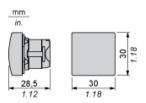


Resistance to high pressure washer	7000000 Pa at 55 °C,distance: 0.1 m		
IK degree of protection	IK05 conforming to IEC 50102		
Standards	EN/IEC 60947-1		
	EN/IEC 60947-5-1		
	EN/IEC 60947-5-4		
	EN/IEC 60947-5-5		
	JIS C 4520		
	UL 508		
	CSA C22.2 No 14		
Vibration resistance	5 gn (f = 2500 Hz) conforming 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		

Contractual warranty

Warranty period

18 months

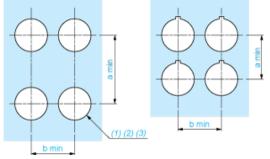


ZB5CV013

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

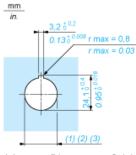
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (1) Diameter on finished panel or support
- (2) (3) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended. \emptyset 22.5 mm recommended (\emptyset 22.3 $_0^{+0.4}$) / \emptyset 0.89 in. recommended (\emptyset 0.88 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

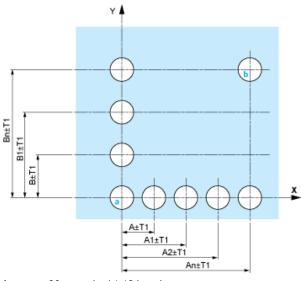


- (1) (2) (3) Diameter on finished panel or support
- For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended. \emptyset 22.5 mm recommended (\emptyset 22.3 $_0^{+0.4}$) / \emptyset 0.89 in. recommended (\emptyset 0.88 in. $_0^{+0.016}$)

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

ZB5CV013

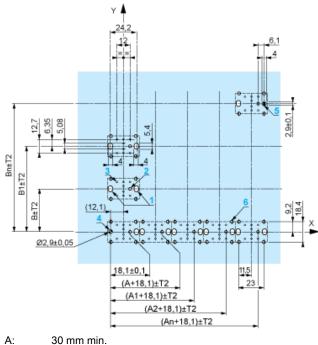
Panel Cut-outs (Viewed from Installer's Side)



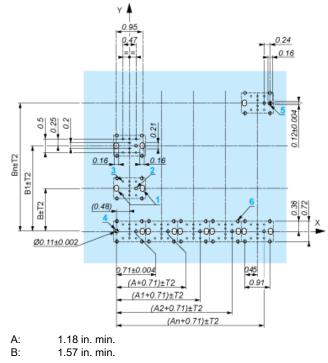
- A: 30 mm min. / 1.18 in. min.
- B: 40 mm min. / 1.57 in. min.

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

Dimensions in mm



B: 40 mm min.



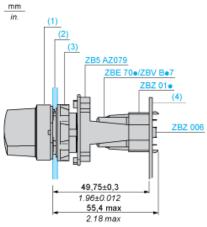
General Tolerances of the Panel and Printed Circuit Board

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.



- Head ZB5AD•
- (1) (2) (2) Panel
- 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 ± 0.05 / 0.09 in. ± 0.002 holes for centring adapter ZBZ01•.

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

Light block

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Technical Description

Electrical Composition Corresponding to Codes M6 and P2



Product data sheet Technical Description

Legend Single contact Double contact Light block Ight block Possible location

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