Product data sheet Characteristics

ZB5AV083

yellow pilot light head Ø22 plain lens for integral



Main

Man	
Range of product	Harmony XB5
Product or component type	Head for pilot light
Product compatibility	Integral LED
Device short name	ZB5
Bezel material	Plastic
Mounting diameter	22 mm
Sale per indivisible quantity	1
Shape of signaling unit head	Round
Cap/Operator or lens colour	Yellow
Operator additional information	With plain lens

Complementary

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Main		
Range of product	Harmony XB5	
Product or component type	Head for pilot light	
Product compatibility	Integral LED	
Device short name	ZB5	
Bezel material	Plastic	
Mounting diameter	22 mm	
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	29 mm	
CAD overall height	29 mm	
CAD overall depth	31 mm	
Product weight	0.017 kg	
Product weight Station name	0.017 kg XALD 15 cut-outs XALK 25 cut-outs	
	XALD 15 cut-outs	
Station name	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	
Station name Electrical composition code	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	
Station name Electrical composition code Environment	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	
Station name Electrical composition code Environment Protective treatment	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	

Environment

Protective treatment	TH
Ambient air temperature for storage	-4070 °C
Ambient air temperature for operation	-4070 °C
Overvoltage category	Class II IEC 60536

IP degree of protection	IP67 IP66 conforming to IEC 60529			
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	UL 508 EN/IEC 60947-5-1 JIS C 4520 CSA C22.2 No 14 EN/IEC 60947-5-5 EN/IEC 60947-1 EN/IEC 60947-5-4			
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			

Product data sheet Dimensions Drawings

ZB5AV083

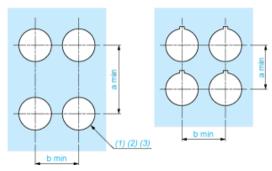
Dimensions





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

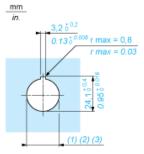
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



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

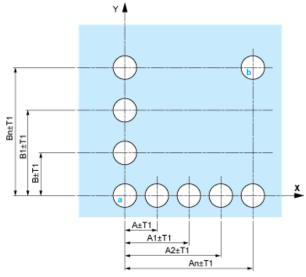
Detail of Lug Recess



- 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

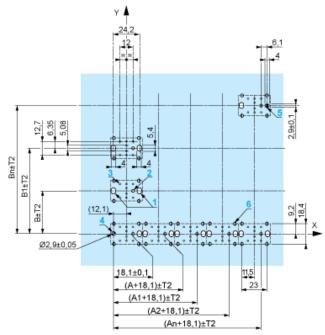
Panel Cut-outs (Viewed from Installer's Side)



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

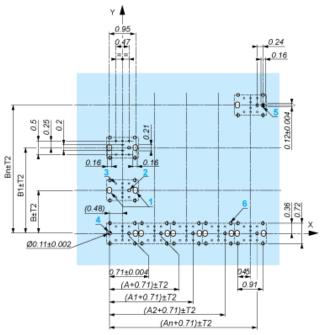
Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

Dimensions in mm



- A: 30 mm min.
- B: 40 mm min.

Dimensions in in.



A: 1.18 in. min. B: 1.57 in. min.

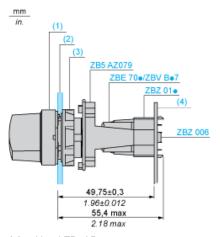
General Tolerances of the Panel and Printed Circuit Board

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:
 - o 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.



- (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 \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 \pm 0.05 / 0.09 in. \pm 0.002 holes for centring adapter ZBZ01•.

Product data sheet Technical Description

ZB5AV083

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

Light block



Product data sheet Technical Description

ZB5AV083

Electrical Composition Corresponding to Codes M6 and P2



Product data sheet Technical Description

ZB5AV083

Legend

Single contact



Double contact



Light block



Possible location

