

Product data sheet Characteristics

ZB5AW153S orange projecting illuminated pushbutton head Ø22 spring return for integral LED

EAN Code: 3389110175950

Main

Iviain				
Range of product	Harmony XB5 Head for illuminated push-button			
Product or component type				
Device short name	ZB5			
Product compatibility	Integral LED			
Bezel material	Plastic			
Mounting diameter	22 mm			
Sale per indivisible quantity	1			
Shape of signaling unit head	Round			
Type of operator	Spring return			
Operator profile	Orange projecting, unmarked			
Operator additional in- formation	With grooved lens			
Environmental charac- teristic	High ambient lighting environment			



Complementary					
CAD overall width	29 mm				
CAD overall height	29 mm				
CAD overall depth	33 mm				
Net weight	0.017 kg				
Resistance to high pressure washer	7000000 Pa at 55 °C, distance : 0.1 m				
Mechanical durability	1000000 cycles				
Main group	Illum push-button				
Group of product	Proj push with inser of legend				
Station name	XALD 15 cut-outs XALK 25 cut-outs				
Cap/operator or lens colour	Orange				
Marking	Unmarked				
Electrical composition code	M1 for <6 contacts using single blocks in front mounting with integral LED M2 for <6 contacts using single and double blocks in front mounting with integral LED M6 for <2 contacts using single blocks in front mounting with integral LED and transformer M10 for <2 contacts using single blocks in front mounting with integral LED MF1 for <2 contacts using single blocks in front mounting with integral LED MR1 for <2 contacts using single blocks in rear mounting with integral LED				
Device presentation	Basic sub-assemblies				

Environment

Protective treatment	TC				
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 IP69 IP69K				
NEMA degree of protection	NEMA 13 NEMA 4X				
IK degree of protection	IK05 conforming to EN 50102				
Product certifications	GL[RETURN]LROS (Lloyds register of shipping)[RETURN]UL listed[RETURN]DNV[RETURN]BV[RETURN]CSA				
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

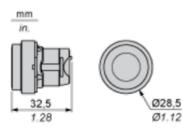
Warranty

18 months

Product data sheet Dimensions Drawings

ZB5AW153S

Dimensions

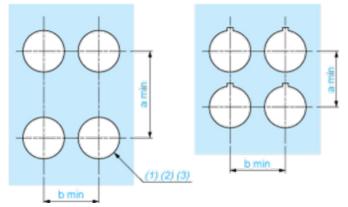




ZB5AW153S

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

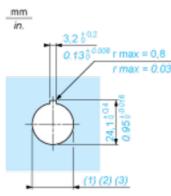
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



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

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

Life Is On Schneider

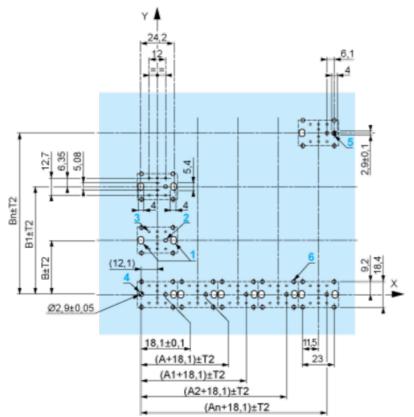
Panel Cut-outs (Viewed from Installer's Side)



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.

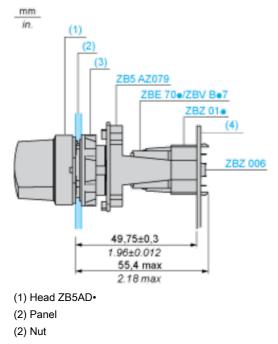
General Tolerances of the Panel and Printed Circuit Board

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•
- 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•.