Product data sheet Characteristics

ZB5AW153

orange projecting illuminated pushbutton head Ø22 spring return for integral LED



Range of product	Harmony XB5	
Product or component type	Head for illuminated push-button	
Device short name	ZB5	
Product compatibility	Integral LED	
Bezel material	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 projecting unmarked	
Operator additional information	With plain lens	

Complementary

Main				
Range of product	Harmony XB5			
Product or component type	Head for illuminated push-button			
Device short name	ZB5			
Product compatibility	Integral LED			
Bezel material	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 projecting unmarked			
operator promo				
Operator additional information Complementary	With plain lens			
	With plain lens 29 mm 29 mm			
Operator additional information Complementary CAD overall width	29 mm			
Operator additional information Complementary CAD overall width CAD overall height	29 mm 29 mm			
Operator additional information Complementary CAD overall width CAD overall height CAD overall depth	29 mm 29 mm 33 mm			
Operator additional information Complementary CAD overall width CAD overall height CAD overall depth Product weight	29 mm 29 mm 33 mm 0.018 kg			
Operator additional information Complementary CAD overall width CAD overall height CAD overall depth Product weight Resistance to high pressure washer	29 mm 29 mm 33 mm 0.018 kg 7000000 Pa at 55 °C,distance: 0.1 m			

Environment

Environment		ĕ
Protective treatment	TC	This
Ambient air temperature for storage	-4070 °C	mer:
Ambient air temperature for operation	-4070 °C	sclai

Overvoltage category	Class II conforming to IEC 60536		
IP degree of protection	IP69 IP66 conforming to IEC 60529 IP69K		
NEMA degree of protection	NEMA 13 NEMA 4X		
IK degree of protection	IK05 conforming to EN 50102		
Standards	CSA C22.2 No 14 EN/IEC 60947-5-1 EN/IEC 60947-1 JIS C 4520 GB 14048.5 EN/IEC 60947-5-4 UL 508		
Product certifications	BV LROS (Lloyds register of shipping) GL CSA UL listed DNV RINA		
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			

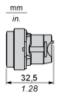
Contractual warranty

Warranty period 18 months

Product data sheet Dimensions Drawings

ZB5AW153

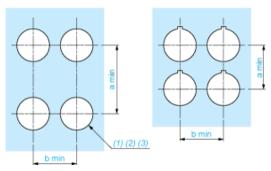
Dimensions





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

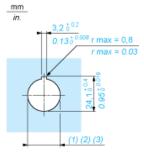
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (1) Diameter on finished panel or support
- 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. $_0^{+0.016}$)
- (2) (3)

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

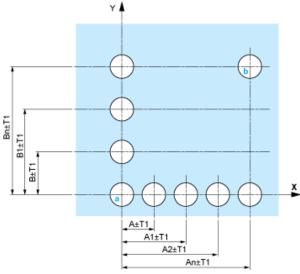
Detail of Lug Recess



- 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. $_0$ $^{+0.016}$)
- (1) (2) (3)

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

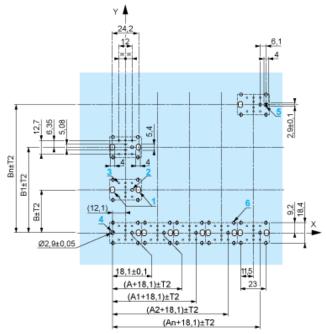
Panel Cut-outs (Viewed from Installer's Side)



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

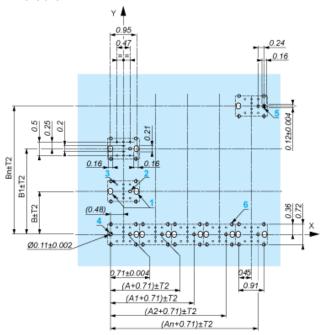
Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

Dimensions in mm



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

Dimensions in in.



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

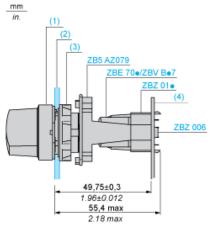
General Tolerances of the Panel and Printed Circuit Board

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) (2) (2) Head ZB5AD•
- Panel
- Nut
- 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•.