Product datasheet Characteristics

ZB5AA71115

white flush/red projecting/white flush triple-headed pushbutton Ø22 with marking



Main

Range of product	Harmony XB5	
Product or component type	Head for triple-headed push-button	t i i i i i i i i i i i i i i i i i i i
Device short name	XB5	
Bezel material	Plastic	
Mounting diameter	22 mm	
Shape of signaling unit head	Rectangular	
Type of operator	Spring return	
Operator profile	2 flush - 1 central projecting STOP push-buttons	
Operators description	White "+" - white "-" - red "STOP"	

Complementary

Main		
Range of product	Harmony XB5	
Product or component type	Head for triple-headed push-button	
Device short name	XB5	
Bezel material	Plastic	
Mounting diameter	22 mm	
Shape of signaling unit head	Rectangular	
Type of operator	Spring return	
Operator profile	2 flush - 1 central projecting STOP push-buttons	
Operators description	White "+" - white "-" - red "STOP"	
Complementary		
CAD overall width	30 mm	
CAD overall height	50 mm	
CAD overall depth	35 mm	
Product weight	0.023 kg	
Resistance to high pressure washer	7000000 Pa at 55 °C,distance: 0.1 m	
Colour of marking	Black marking when white caps White marking when green, red or black caps	
Operator profile	Red projecting, white STOP White flush, black - White flush, black +	
Mechanical durability	1000000 cycles	
Station name	XALD 1 cut-out	
Electrical composition code	C1 for <= 9 contacts using single blocks in front mounting C2 for <= 9 contacts using single and double blocks in front mounting C11 for <= 3 contacts using single blocks in front mounting SF1 for <= 3 contacts using single blocks in front mounting SR1 for <= 3 contacts using single blocks in rear mounting	

Environment

	40 70 °C			
Ambient air temperature for storage	-4070 °C			
Ambient air temperature for operation	-2570 °C			
Class of protection against electric shock	Class II conforming to IEC 61140			
IP degree of protection	IP69 conforming to IEC 60529 IP67 conforming to IEC 60529 IP69K			
NEMA degree of protection	NEMA 13 NEMA 4X			
IK degree of protection	IK05 conforming to IEC 50102			
Standards	EN/IEC 60947-5-1 EN/IEC 60947-1 UL 508 CSA C22.2 No 14 JIS C 4520 EN/IEC 60947-5-4			
Product certifications	DNV BV CSA RINA LROS (Lloyds register of shipping) UL listed GL			
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			

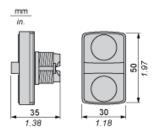
18 months

Contractual warranty

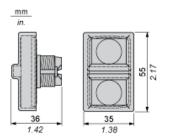
Warranty period

Dimensions

Without Boot

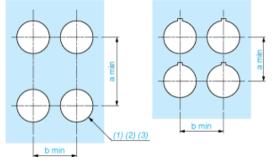


With Boot ZBA709



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

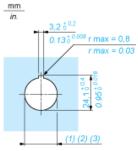
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



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

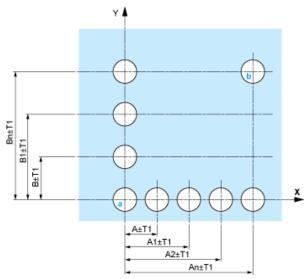
Detail of Lug Recess



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

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

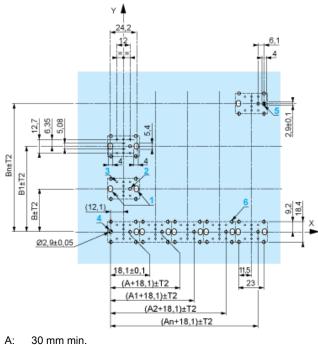
Panel Cut-outs (Viewed from Installer's Side)



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

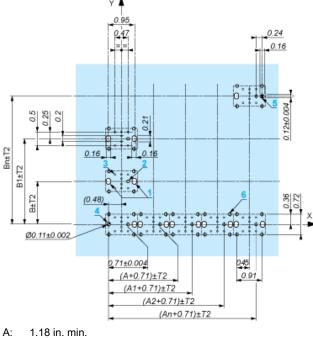
Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

Dimensions in mm



B: 40 mm min.

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B: 1.57 in. min.

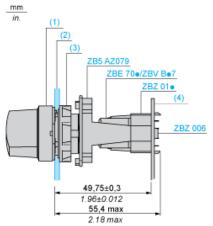
General Tolerances of the Panel and Printed Circuit Board

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).
 - $^{\circ}$ 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 ± 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 Code C1



Technical Description

Electrical Composition Corresponding to Code C2



Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1



Product datasheet

ZB5AA71115

Technical Description

Legend Single contact Double contact Light block 8 Possible location