

Product data sheet Characteristics

ZB5AA435

Head for non illuminated push button, Harmony XB5, red flush pushbutton Ø22 mm spring return "OFF"



	Main					
	Range of product	Harmony XB5				
OFF	Product or component type	Head for non-illuminated push-button				
	Device short name	ZB5				
	Bezel material	Dark grey plastic				
	Mounting diameter	22 mm				
	Head type	Standard				
	Sale per indivisible quantity	1				
	Shape of signaling unit head	Round				
	Type of operator	Spring return				
	Operator profile	Red flush, OFF (white)				
Complementary						
Complementary CAD overall width	29 mm					
CAD overall height	29 mm					
CAD overall depth	28 mm					
Net weight	0.018 kg					
Mechanical durability	10000000 cycles					
Station name	XALD 15 cut-outs					
	XALK 25 cut-outs					
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 C15 for <1 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					
Device presentation	Basic element					
Environment						
Protective treatment	TH					
Ambient air temperature for storage	-4070 °C					
Ambient air temperature for operation	-4070 °C					
Overvoltage category	Class II conforming to IEC	Class II conforming to IEC 60536				
IP degree of protection	IP66 conforming to IEC 60529 IP67 IP69 IP69K					
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	IK03 conforming to IEC 50102					

Standards	IEC 60947-5-4			
	JIS C8201-5-1 UL 508			
	IEC 60947-5-1			
	IEC 60947-1			
	CSA C22.2 No 14			
	JIS C8201-1			
Product certifications	UL listed[RETURN]DNV[RETURN]GL[RETURN]CSA[RETURN]LROS (Lloyds register of shipping)[RETURN]BV			
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			
Vibration resistance	5 gn (f= 2500 Hz) conforming to IEC 60068-2-6			

Packing Units

PCE
1
4.4 cm
3.4 cm
5.2 cm
17 g
BB1
5
3.4 cm
4.4 cm
26.5 cm
85 g
S02
100
15 cm
30 cm
40 cm
2.081 kg

Offer Sustainability

Sustainable offer status	Green Premium product		
REACh Regulation	REACh Declaration		
REACh free of SVHC	Yes		
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)		
Mercury free	Yes		
China RoHS Regulation	China RoHS Declaration		
RoHS exemption information	₫ Yes		
Environmental Disclosure	Product Environmental Profile		
Circularity Profile	End Of Life Information		

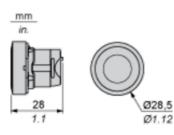
Contractual warranty

Warranty

18 months

Product data sheet Dimensions Drawings

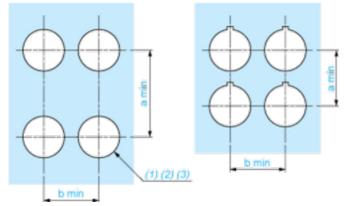
Dimensions



ZB5AA435

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

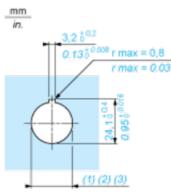
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (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



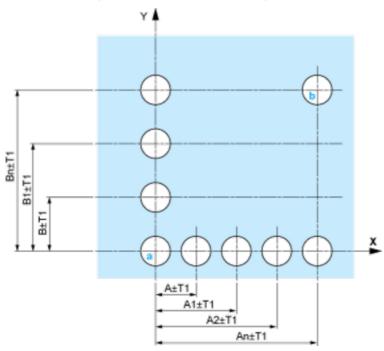
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Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

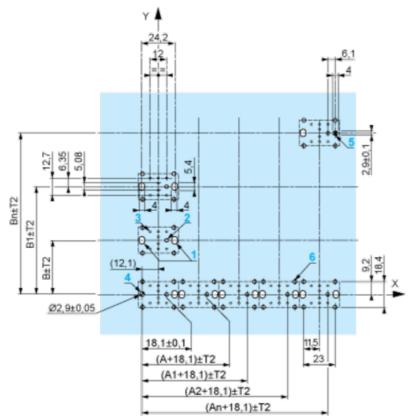
Panel Cut-outs (Viewed from Installer's Side)



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

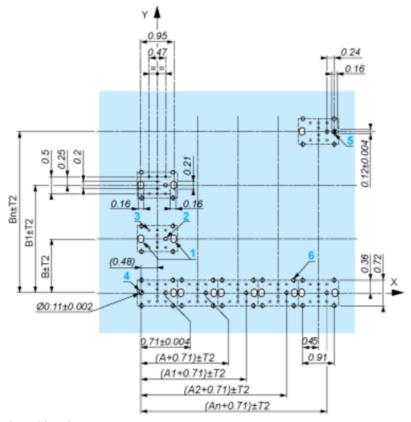
Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

Dimensions in mm



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

Dimensions in in.



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

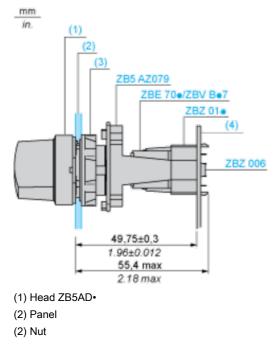
General Tolerances of the Panel and Printed Circuit Board

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:
 - 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.



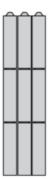
Mounting of Adapter (Socket) ZBZ01•

- 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•
- 38 × 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•

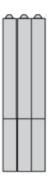
Dimensions An + 18.1 relate to the Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 holes for centring adapter ZBZ01•.

ZB5AA435

Electrical Composition Corresponding to Code C1



Electrical Composition Corresponding to Code C2



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

Electrical Composition Corresponding to Code C15

1 N/O

1 N/C

Legend

Single contact

Double contact

Light block

Possible location