ZB5AD3 black selector switch head Ø22 3-position stay put



Main

Main		
Range of product	Harmony XB5	
Product or component type	Head for selector switch	
Device short name	ZB5	
Bezel material	Plastic	
Mounting diameter	22 mm	
Sale per indivisible quantity	1	
Shape of signaling unit head	Round	
Type of operator	Stay put	
Operator profile	Black standard handle	
Operator position information	3 positions +/- 45°	
Complementary CAD overall width	29 mm	
CAD overall height	29 mm	
CAD overall depth	46 mm	
Product weight	0.017 kg	
Mechanical durability Station name	1000000 cycles XALD 15 cut-outs XALK 25 cut-outs	
Electrical composition code	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 C3 for <= 6 contacts using single blocks in front mounting C4 for <= 6 contacts using single and double blocks in front mounting C7 for <= 4 contacts using single blocks in front mounting C8 for <= 4 contacts using single and double blocks in front mounting C5 for <= 5 contacts using single and double blocks in front mounting C6 for <= 5 contacts using single and double blocks in front mounting	
Environment		
Protective treatment	TH	

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Environment



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
Product certifications	DNV LROS (Lloyds register of shipping) RINA CSA UL listed BV GL
Standards	EN/IEC 60947-1 EN/IEC 60947-5-1 UL 508 CSA C22.2 No 14 EN/IEC 60947-5-4 JIS C 4520
IK degree of protection	IK06 conforming to IEC 50102
Resistance to high pressure washer	7000000 Pa at 55 °C,distance: 0.1 m
NEMA degree of protection	NEMA 13 NEMA 4X
IP degree of protection	IP69 conforming to IEC 60529 IP67 conforming to IEC 60529 IP69K
Overvoltage category	Class II conforming to IEC 60536
Ambient air temperature for operation	-4070 °C
Ambient air temperature for storage	-4070 °C

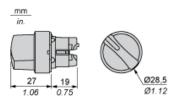
Contractual warranty

Warranty period

18 months

Product datasheet Dimensions Drawings

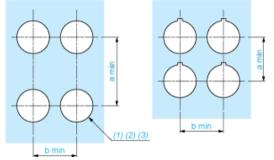
Dimensions



ZB5AD3

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

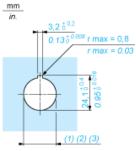
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- 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

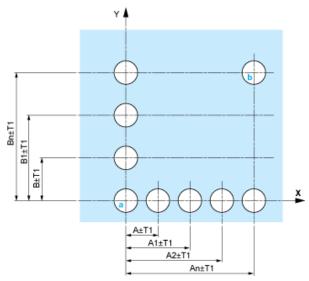


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Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

ZB5AD3

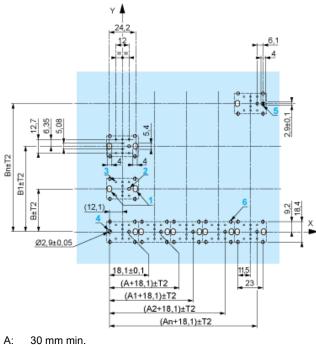
Panel Cut-outs (Viewed from Installer's Side)



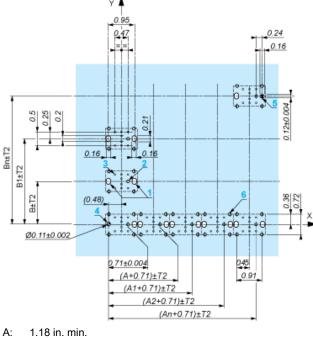
- A: 30 mm min. / 1.18 in. min.
- B: 40 mm min. / 1.57 in. min.

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

Dimensions in mm



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



B: 1.57 in. min.

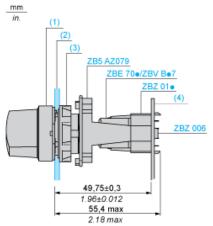
General Tolerances of the Panel and Printed Circuit Board

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.

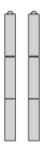


- (1) Head ZB5AD•
- (2) Panel
- (2) Nut
- (4) Printed circuit board

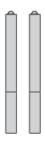
Mounting of Adapter (Socket) ZBZ01•

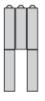
- 1 2 elongated holes for ZBZ006 screw access
- + 2 1 hole Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 for centring adapter ZBZ01+
- 3 8 × Ø 1.2 mm / 0.05 in. holes
- 4 1 hole Ø 2.9 mm ± 0.05 / 0.11 in. ± 0.002, for aligning the printed circuit board (with cut-out marked a)
- 5 1 elongated hole for aligning the 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•.



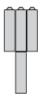
Technical Description





Technical Description





Technical Description



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



Product datasheet Technical Description

Electrical Composition Corresponding to Code C15





1 N/O + N/C or 1 N/O + N/O or 1 N/C + N/C



Product datasheet **Technical Description**

Legend Single contact Double contact Light block 8 Possible location 4

Life Is On Schneider

Sequence of Contacts Fitted to 3-position Selector Switch Body

Position 315°



Push	Position	Тор			
Bottom					
Location		Left	Centre	Right	
State		1	1	0	
Contacts	N/O	·	closed	closed	open
N/C		open	open	closed	

Position 0°



\square						
Push	Position	Тор				
Bottom	\bigtriangleup					
Location		Left	Centre	Right		
State		0	0	0		
Contacts	N/O	N/O		open	open	
N/C		closed	closed	closed		

Position 45°



Push	Position	Тор			
Bottom					
Location		Left	Centre	Right	
State		0	1	1	
Contacts	N/O		open	closed	closed
N/C		closed	open	open	