ZB5AG510

selector switch head Ø22 3-position stay put Ronis 458A



Main

Range of product	Harmony XB5
Product or component type	Head for key selector switch
Device short name	ZB5
Bezel material	Plastic
Mounting diameter	22 mm
Head type	Standard
Sale per indivisible quantity	1
Shape of signaling unit head	Round
Type of operator	Stay put
Operator profile	Black key switch
Operator position information	3 positions +/- 45°
Type of keylock	Ronis 458A
Key withdrawal position	Left and right

Complementary

Customizable	No	
	C3 for 6 contacts using single blocks in front mounting	
	C5 for 5 contacts using single blocks in front mounting C6 for 5 contacts using single and double blocks in front mounting	
	C4 for 6 contacts using single and double blocks in front mounting	
	SR1 for 3 contacts using single blocks in rear mounting	
	C8 for 4 contacts using single and double blocks in front mounting	
	C7 for 4 contacts using single blocks in front mounting	
,	SF1 for 3 contacts using single blocks in front mounting	
Electrical composition code	C11 for 3 contacts using single blocks in front mounting	
	XALK 25 cut-outs	
Station name	XALD 15 cut-outs	
Mechanical durability	1000000 cycles	
Product weight	0.057 kg	
CAD overall depth	72 mm	
CAD overall height	29 mm	
CAD overall width	29 mm	

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 60536
IP degree of protection	IP67 IP66 conforming to IEC 60529 IP69K IP69
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	IK06 conforming to IEC 50102
standards	EN/IEC 60947-1 EN/IEC 60947-5-1 EN/IEC 60947-5-4 JIS C 4520 UL 508 CSA C22.2 No 14

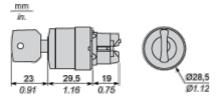


product certifications	BV		
	CSA		
	DNV		
	GL		
	LROS (Lloyds register of shipping)		
	RINA		
	UL listed		
vibration resistance	5 gn (f = 2500 Hz) conforming to IEC 60068-2-6		
shock resistance	30 gn (duration = 18 ms) for half sine wave acceleration conforming to IEC 60068-2-		
	27		
	50 gn (duration = 11 ms) for half sine wave acceleration conforming to IEC 60068-2-		
	27		

Contractual warranty

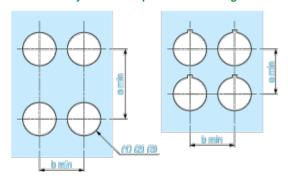
Warranty period	18 months 18 months
• •	

Dimensions



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

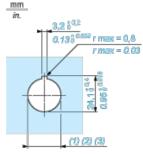
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (1) Diameter on finished panel or support
- (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

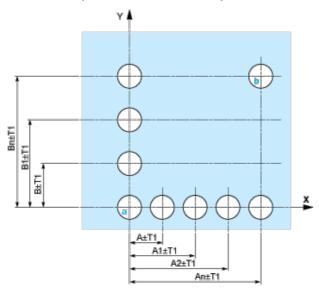


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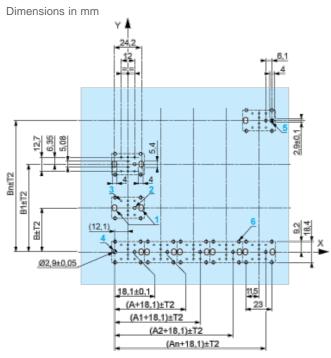
Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

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

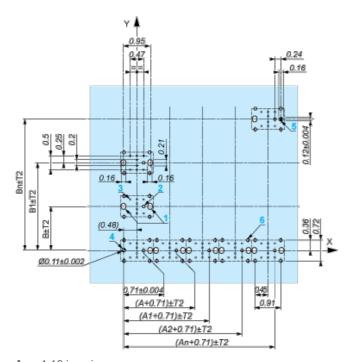


A: 30 mm min. / 1.18 in. min.B: 40 mm min. / 1.57 in. min.

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



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



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

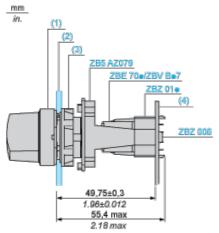
General Tolerances of the Panel and Printed Circuit Board

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.



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

Mounting of Adapter (Socket) ZBZ01•

- 1 2 elongated holes for ZBZ006 screw access
- 1 2 1 hole Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 for centring adapter ZBZ01•
- 1 3 8 \times Ø 1.2 mm / 0.05 in. holes
- 1 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)



I	5 1 elongated hole for aligning the printed circuit board (with cut-out marked b)
1	6 4 holes Ø 2.4 mm / 0.09 in. for clipping in adapter ZBZ01•
Dimer	nsions An + 18.1 relate to the Ø 2.4 mm \pm 0.05 / 0.09 in. \pm 0.002 holes for centring adapter ZBZ01 \bullet .

Electrical Composition Corresponding to Code C4



Electrical Composition Corresponding to Code C5



Electrical Composition Corresponding to Code C6



Electrical Composition Corresponding to Code C7



Electrical Composition Corresponding to Code C8



Electrical Composition Corresponding to Code C3



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



Legend

Single contact



Double contact



Light block



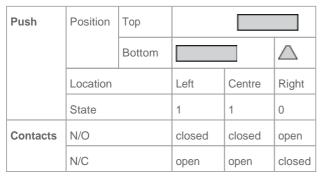
Possible location



Sequence of Contacts Fitted to 3-position Selector Switch Body

Position 315°





Position 0°



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

Position 45°



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