## Product data sheet Characteristics

# ZB5AG6

selector switch head Ø22 2-position spring return Ronis 455





#### Main

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		appli	
		liser	
Main		ecific	
Range of product	Harmony XB5	s	
Product or component type	Head for key selector switch		
Device short name	ZB5		
Bezel material		ea	
	Dark grey plastic	¢	
Mounting diameter	22 mm	abilit	
Head type	Standard		
Sale per indivisible quantity	1	iii t	
Shape of signaling unit head	Round		
Type of operator	Right to left spring return		
Operator profile	Black key switch	im	
Operator position information	2 positions 90°	r dete	
Type of keylock	Ronis 455	of be	
Key withdrawal position	Left	ne cs	
O and a sector of		a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications	
Complementary			
CAD overall width	29 mm	te	
CAD overall height	29 mm	stitu	
CAD overall depth	72 mm	a sut	
Net weight	0.061 kg	mation interned interned as :	
Mechanical durability	100000 cycles		
Station name	XALD 15 cut-outs XALK 25 cut-outs		
Electrical composition code	Electrical composition code C4 for <6 contacts using single and double blocks in front mounting C5 for <5 contacts using single blocks in front mounting		

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tation name XALD 15 cut-outs XALK 25 cut-outs		 
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Basic element

Device p	presentation
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## Environment

Environment	
Protective treatment	ТН
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	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	IK06 conforming to IEC 50102
Standards	UL 508 JIS C8201-5-1 CSA C22.2 No 14 EN/IEC 60947-5-4 EN/IEC 60947-5-1 EN/IEC 60947-1 JIS C8201-1
Product certifications	GL RINA LROS (Lloyds register of shipping) UL listed CSA BV DNV
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
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) EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	Yes

China RoHS Regulation	China RoHS declaration	
Environmental Disclosure Product Environmental Profile		
Circularity Profile	End of Life Information	

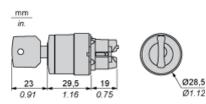
## Contractual warranty

Warranty

18 months

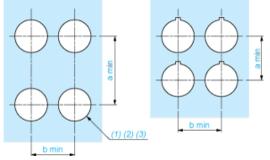
Product data sheet Dimensions Drawings

## Dimensions



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

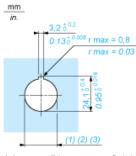
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- Diameter on finished panel or support
- (1) (2) (3) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended. Ø22.5 mm recommended ( $\emptyset$ 22.3  $_0^{+0.4}$ ) /  $\emptyset$ 0.89 in. recommended ( $\emptyset$ 0.88 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**

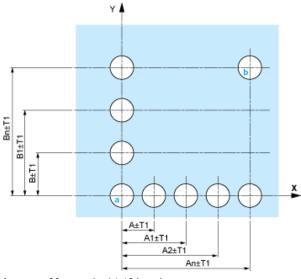


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## Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

ZB5AG6

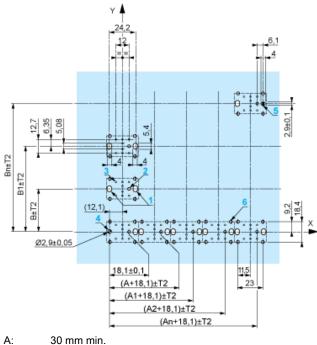




- A: 30 mm min. / 1.18 in. min.
- B: 40 mm min. / 1.57 in. min.

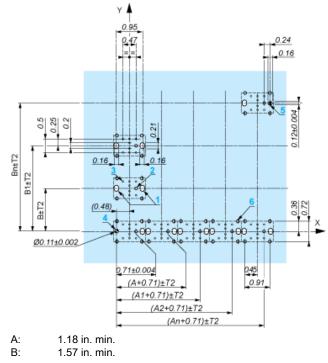
## Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

Dimensions in mm



B: 40 mm min.

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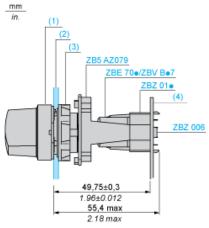
## General Tolerances of the Panel and Printed Circuit Board

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.

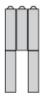


- Head ZB5AD•
- (1) (2) (2) Panel
- Nut
- (4) Printed circuit board

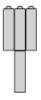
### Mounting of Adapter (Socket) ZBZ01•

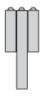
- 1 2 elongated holes for ZBZ006 screw access
- + 2 1 hole Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 for centring adapter ZBZ01+
- 3 8 × Ø 1.2 mm / 0.05 in. holes
- 4 1 hole Ø 2.9 mm ± 0.05 / 0.11 in. ± 0.002, for aligning the printed circuit board (with cut-out marked a)
- 5 1 elongated hole for aligning the printed circuit board (with cut-out marked b)
- 6 4 holes Ø 2.4 mm / 0.09 in. for clipping in adapter ZBZ01•

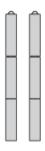
Dimensions An + 18.1 relate to the Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 holes for centring adapter ZBZ01•.











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



Product data sheet Technical Description

## Legend

Single contact



Double contact



Light block



Possible location



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## Sequence of Contacts Fitted to 2-position Selector Switch Body

## Position 315°



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

## Position 45°



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