Product datasheet Characteristics

ZB5AG214 selector switch head Ø22 2-position stay put Ronis 520E

TSI Code : 237193159





Main

Main		
Range of product	Harmony XB5	
Range of product	Harmony XALF	
Product or component type	Head for key selector switch	
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	
Operator position information	2 positions 90°	
Type of keylock	Ronis 520E	
Key withdrawal position	Left	
Complementary		
CAD overall width	29 mm	
CAD overall height	29 mm	
CAD overall depth	72 mm	
Product weight	0.057 kg	
Product weight Mechanical durability	0.057 kg 1000000 cycles	
Mechanical durability		
Mechanical durability	1000000 cycles	
Mechanical durability Device presentation	1000000 cycles	
Mechanical durability	1000000 cycles	
Mechanical durability Device presentation Environment	100000 cycles Basic element	
Mechanical durability Device presentation Environment Protective treatment	100000 cycles Basic element TH	
Mechanical durability Device presentation Environment Protective treatment Ambient air temperature for storage	1000000 cycles Basic element TH -4070 °C	

Complementary

Device presentation	Basic element	
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	ments
Ambient air temperature for storage	-4070 °C	
Ambient air temperature for operation	-4070 °C	i
Standards	EN/IEC 60947-5-4	



	CSA C22.2 No 14 EN/IEC 60947-5-1 EN/IEC 60947-1 JIS C8201-5-1 UL 508 JIS C8201-1		
Product certifications	BV UL listed LROS (Lloyds register of shipping) DNV GL CSA		

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	67 g
Package 1 Height	8.7 cm
Package 1 width	3.4 cm
Package 1 Length	5.2 cm
Unit Type of Package 2	S02
Number of Units in Package 2	50
Package 2 Weight	3.684 kg
Package 2 Height	15 cm
Package 2 width	30 cm
Package 2 Length	40 cm

Offer Sustainability

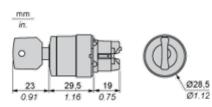
Sustainable offer status	Green Premium product		
REACh Regulation	REACh Declaration		
EU RoHS Directive	tive Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration		
Mercury free	Yes		
RoHS exemption information	Yes		
China RoHS Regulation	China RoHS declaration		
Environmental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

Contractual warranty

Warranty	18 months

Product datasheet Dimensions Drawings

Dimensions

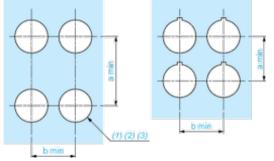


3

ZB5AG214

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



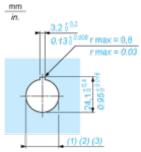
(1) Diameter on finished panel or support

(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



(1) Diameter on finished panel or support

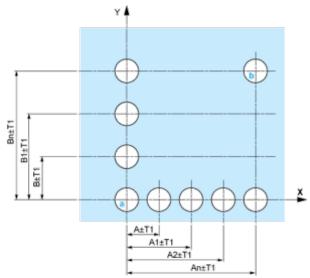
(2) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.

(3) Ø22.5 mm recommended (Ø22.3 $_{0}^{+0.4}$) / Ø0.89 in. recommended (Ø0.88 in. $_{0}^{+0.016}$)

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

ZB5AG214

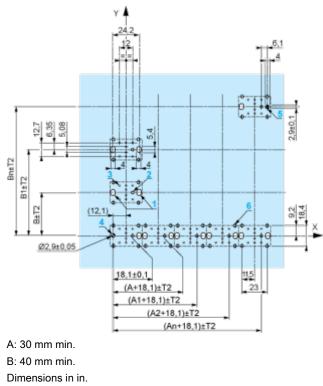
Panel Cut-outs (Viewed from Installer's Side)

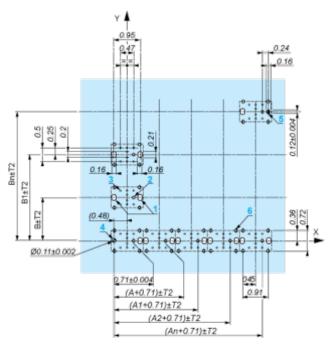


A: 30 mm min. / 1.18 in. min. B: 40 mm min. / 1.57 in. min.

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

Dimensions in mm







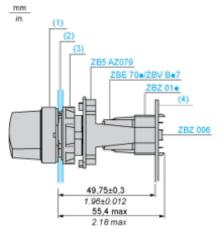
General Tolerances of the Panel and Printed Circuit Board

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.

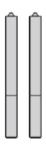


- (1) Head ZB5AD•
- (2) Panel
- (2) Nut
- (4) Printed circuit board

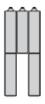
Mounting of Adapter (Socket) ZBZ01•

- 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 \pm 0.05 / 0.09 in. \pm 0.002 holes for centring adapter ZBZ01•.

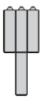


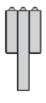
Technical Description





Technical Description





Technical Description



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



Product datasheet Technical Description

Legend

Single contact



Double contact



Light block



Possible location



Sequence of Contacts Fitted to 2-position Selector Switch Body

Position 315°



Push	Position Top				
		Bottom	\bigtriangleup	\bigtriangleup	\bigtriangleup
	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]	
	Location State		Left	Centre	Right
			1	1	1
Contacts	N/O		closed	closed	closed
	N/C		open	open	open