Product datasheet Characteristics

ZB5AG414

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





(!) Discontinued

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Range of product	Harmony XB5	
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	1
Sale per indivisible quantity	1	-
Shape of signaling unit head	Round	
Type of operator	stay put	
Operator profile	Black key switch	:
Operator position information	2 positions 90°	
Type of keylock	Ronis 520E	-
Key withdrawal position	In any position	
		=

Complementary

Complementary		.0
CAD overall width	29 mm	-
CAD overall height	29 mm	
CAD overall depth	72 mm	
Net weight	0.057 kg	0
Mechanical durability	1000000 cycles	ă T
Station name	XALD 15 cut-outs XALK 25 cut-outs	ri God
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 C6 for <5 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 C11 for <3 contacts using single blocks in front mounting C3 for <6 contacts using single blocks in front mounting	er. This documentation is

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 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 EN/IEC 60947-5-4 JIS C8201-5-1 EN/IEC 60947-1 EN/IEC 60947-5-1 CSA C22.2 No 14 JIS C8201-1
Product certifications	LROS (Lloyds register of shipping) UL listed RINA CSA BV DNV GL
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

Packing Units

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Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	66 g
Package 1 Height	8.7 cm
Package 1 width	3.3 cm
Package 1 Length	5.2 cm
Unit Type of Package 2	S02
Number of Units in Package 2	50
Package 2 Weight	3.715 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	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	

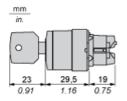
Contractual warranty

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Warranty	18 months

Product datasheet Dimensions Drawings

ZB5AG414

Dimensions

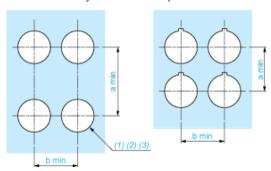




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Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

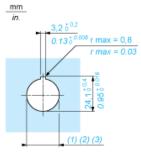
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (1) Diameter on finished panel or support
- For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended. \varnothing 22.5 mm recommended (\varnothing 22.3 $_0$ ^{+0.4}) / \varnothing 0.89 in. recommended (\varnothing 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

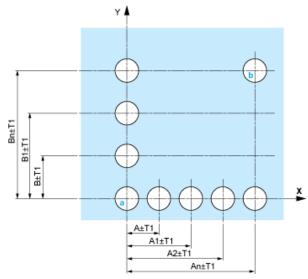
Detail of Lug Recess



- Diameter on finished panel or support
- 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)

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

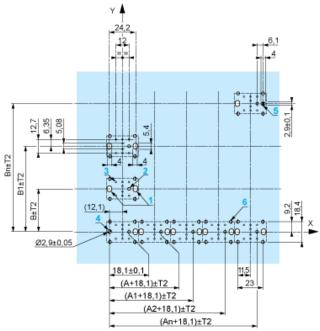
Panel Cut-outs (Viewed from Installer's Side)



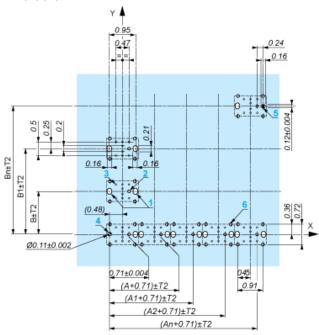
A: 30 mm min. / 1.18 in. min. B: 40 mm min. / 1.57 in. min.

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.

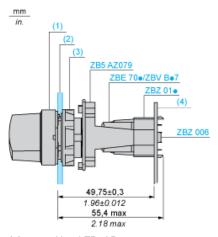
General Tolerances of the Panel and Printed Circuit Board

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:
 - o every 90 mm / 3.54 in. horizontally (X), and 120 mm / 4.72 in. vertically (Y).
 - o 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) (2) Panel
- Nut
- (4)Printed circuit board

Mounting of Adapter (Socket) ZBZ01•

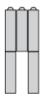
- 1 2 elongated holes for ZBZ006 screw access
- 2 1 hole Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 for centring adapter ZBZ01•
- 38 × Ø 1.2 mm / 0.05 in. holes
- 4 1 hole Ø 2.9 mm ± 0.05 / 0.11 in. ± 0.002, for aligning the printed circuit board (with cut-out marked a)
- 5 1 elongated hole for aligning the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

ZB5AG414



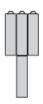
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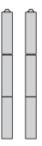
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ZB5AG414



ZB5AG414

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



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Single contact



Double contact



Light block



Possible location



ZB5AG414

Sequence of Contacts Fitted to 2-position Selector Switch Body

Position 315°



Push	Position Top				
		Bottom	Δ	Δ	Δ
	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		Left	Centre	Right	
	State		1	1	1	
Contacts	N/O		closed	closed	closed	
	N/C		open	open	open	

ZB5AG414 is replaced by the following product range:











Harmony XB5

 \varnothing 22 plastic signaling units. Round and square plastic bezel buttons and indicators.

The modular range of Ø 22 mm plastic control and signaling units combines simplicity of installation, efficiency, flexibility, modern design, and robustness, high level of customization to meet most industrial applications.

Reason for Substitution: End of life | Substitution date: 20 November 2020