Product data sheet Characteristics

ZB5AG4

Key switch selector head, plastic, black, Ø22, key n°455, 2 positions, stay put





Main

TVICALITY CONTRACTOR C		
ange of product Harmony XB5		
Product or component type	Head for key selector switch	3
Device short name	ZB5	
Bezel material	Dark grey plastic	4
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	2 positions 90°	-
Type of keylock	Ronis 455	3
Key withdrawal position	In any position	

Complementary

1		
CAD overall width	29 mm	- S
CAD overall height	29 mm	
CAD overall depth	72 mm	Ž.
Net weight	0.057 kg	
Mechanical durability	1000000 cycles	
Station name	XALD 15 cut-outs XALK 25 cut-outs	<u>s.</u>
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	er. This documentation

C3 for <6 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 C15 for <1 contacts using single blocks in front mounting

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

Packing Units

racking offics	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	67 g
Package 1 Height	3.3 cm
Package 1 width	5.2 cm
Package 1 Length	9 cm
Unit Type of Package 2	S03
Number of Units in Package 2	150
Package 2 Weight	10.33 kg
Package 2 Height	30 cm
Package 2 width	30 cm
Package 2 Length	40 cm
Unit Type of Package 3	P06
Number of Units in Package 3	1200
Package 3 Weight	93.852 kg
Package 3 Height	77 cm
Package 3 width	80 cm
Package 3 Length	60 cm

Offer Sustainability

Green Premium product	
REACh Declaration	
Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration	
Yes	
Yes	
China RoHS declaration	
Product Environmental Profile	
End of Life Information	
	REACh Declaration Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration Yes Yes China RoHS declaration Product Environmental Profile

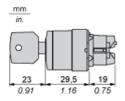
Contractual warranty

Warranty	18 months
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Product data sheet Dimensions Drawings

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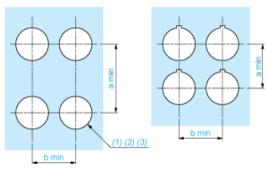
Dimensions





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

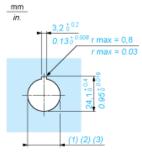
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (1) Diameter on finished panel or support
- 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

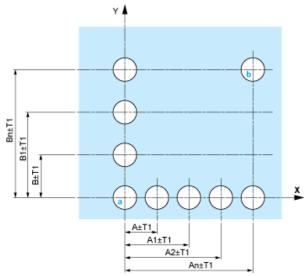
Detail of Lug Recess



- 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})
- (1) (2) (3)

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

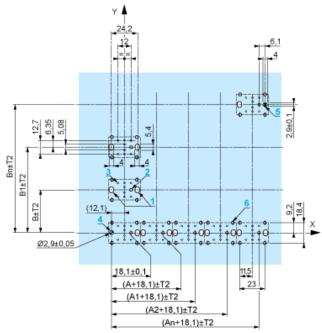
Panel Cut-outs (Viewed from Installer's Side)



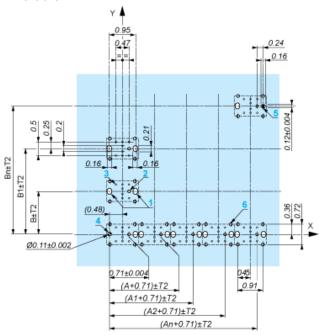
A: 30 mm min. / 1.18 in. min. B: 40 mm min. / 1.57 in. min.

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.

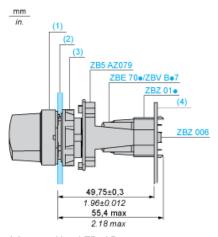
General Tolerances of the Panel and Printed Circuit Board

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 \pm 0.05 / 0.11 in. \pm 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•.

ZB5AG4



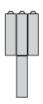
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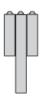
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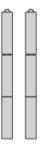
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ZB5AG4



ZB5AG4



ZB5AG4

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



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Single contact



Double contact



Light block



Possible location



ZB5AG4

Sequence of Contacts Fitted to 2-position Selector Switch Body

Position 315°



Push	Position	Тор			
		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	