ZB5AG012

Head for key selector switch, Harmony XB5, XB4, Ø22 mm 3 position stay put 421E





Main

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	0.87 in (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 421E
Key withdrawal position	In any position

Complementary

Device presentation	Basic element			
	SR1 3 single rear mounting			
	SF1 3 single front mounting			
	C3 6 single front mounting			
	C11 3 single front mounting			
	C8 4 single and double front mounting			
	C7 4 single front mounting			
	C6 5 single front mounting C6 5 single and double front mounting			
Liectrical composition code	C4 0 single and double front mounting C5 5 single front mounting			
Electrical composition code	C4 6 single and double front mounting			
	XALK 25 cut-outs			
Station name	XALD 15 cut-outs			
Mechanical durability	1000000 cycles			
Net Weight	0.13 lb(US) (0.057 kg)			
CAD overall depth	2.83 in (72 mm)			
CAD overall height	1.14 in (29 mm)			
CAD overall width	1.14 in (29 mm)			
040 " ' "	4.441 (00)			

Environment

(-4070 °C) (-4070 °C) 60536 529
60536
529
(7000000 Pa) 131 °F (55 °C) 0.1 m
102

Standards	EN/IEC 60947-1
	CSA C22.2 No 14
	UL 508
	EN/IEC 60947-5-4
	EN/IEC 60947-5-1
	JIS C8201-5-1
	JIS C8201-1
Product Certifications	DNV
	UL Listed
	LROS (Lloyds register of shipping)
	CSA
	GL
	BV
Vibration resistance	5 gn 2500 Hz)IEC 60068-2-6
Shock resistance	30 gn 18 ms) half sine wave acceleration IEC 60068-2-27
	50 gn 11 ms) half sine wave acceleration IEC 60068-2-27

Ordering and shipping details

22467 - PUSHBUTTONS,22MM(PLASTIC) NEW		
CS2		
3389110135381		
1		
2.33 oz (66 g)		
Yes		
FR		

Packing Units

· coming come	
Unit Type of Package 1	PCE
Package 1 Height	3.43 in (8.7 cm)
Package 1 width	2.05 in (5.2 cm)
Package 1 Length	1.38 in (3.5 cm)
Unit Type of Package 2	BB1
Number of Units in Package 2	5
Package 2 Weight	11.75 oz (333 g)
Package 2 Height	3.43 in (8.7 cm)
Package 2 width	10.43 in (26.5 cm)
Package 2 Length	1.38 in (3.5 cm)
Unit Type of Package 3	S03
Number of Units in Package 3	150
Package 3 Weight	23.57 lb(US) (10.689 kg)
Package 3 Height	11.81 in (30 cm)
Package 3 width	11.81 in (30 cm)
Package 3 Length	15.75 in (40 cm)

Offer Sustainability

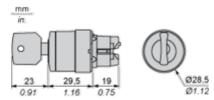
Sustainable offer status	Green Premium product			
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov			
REACh Regulation	☑ REACh Declaration			
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EPEU 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			

Warranty 18 months

Product data sheet Dimensions Drawings

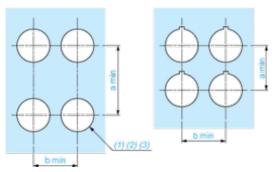
ZB5AG012

Dimensions



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

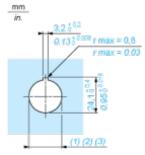
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (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

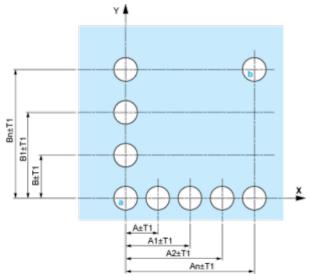
Detail of Lug Recess



- (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) \emptyset 22.5 mm recommended (\emptyset 22.3 $_0$ ^{+0.4}) / \emptyset 0.89 in. recommended (\emptyset 0.88 in. $_0$ ^{+0.016})

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

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

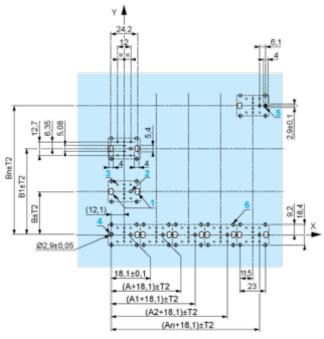


A: 30 mm min. / 1.18 in. min.

B: 40 mm min. / 1.57 in. min.

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

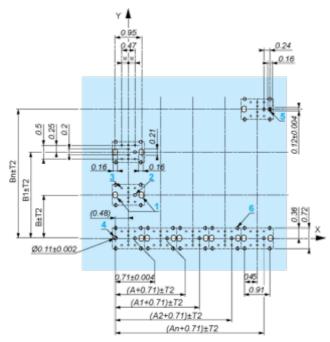
Dimensions in mm



A: 30 mm min.

B: 40 mm min.

Dimensions in in.



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

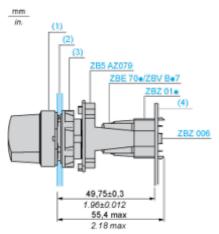
General Tolerances of the Panel and Printed Circuit Board

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:
 - $\circ~$ 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) 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•.

Product data sheet Technical Description

ZB5AG012

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

_egend
Single contact
Pouble contact
ight block
Possible location
Sequence of Contacts Fitted to 3-position Selector Switch Body

Position 315°

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

Position 0°



Push	Position Top				
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			
Bottom	Δ				
Location		Left	Centre	Right	
State		0	1	1	
Contacts	N/O		open	closed	closed
N/C		closed	open	open	