ZB5AG212C0

Key switch selector head, Harmony XB5, plastic, black, 22mm, key 421E, 2 positions, stay put, grey bezel



Main

Range of Product	Harmony XB5 Harmony XALF
Product or Component Type	Head for key selector switch
Device short name	ZB5
Bezel material	Plastic colour plated grey
Mounting diamete	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	2 positions 90°
Type of Keylock	Key 421E
Key withdrawal position	Left

Complementary

CAD overall width	1.14 in (29 mm)			
CAD overall height	1.14 in (29 mm)			
CAD overall depth	2.83 in (72 mm)			
Net Weight	0.13 lb(US) (0.057 kg)			
Mechanical durability	1000000 cycles			
Station name	XALD 15 cut-outs XALK 25 cut-outs			
Electrical composition code	C4 6 single and double front mounting C5 5 single front mounting C6 5 single and double front mounting C7 4 single front mounting C8 4 single and double front mounting C11 3 single front mounting C3 6 single front mounting SF1 3 single front mounting SR1 3 single front mounting C15 1 single front mounting			
Device presentation	Basic element			

Environment

Protective treatment	TH	
Ambient Air Temperature for Storage	-40158 °F (-4070 °C)	
Ambient air temperature for operation	-40158 °F (-4070 °C)	
Overvoltage category	Class II IEC 60536	
IP degree of protection	IP66 IEC 60529 IP67	
NEMA degree of protection	NEMA 13 NEMA 4X	
Resistance to high pressure washer	esistance to high pressure washer 1015.26 psi (7000000 Pa) 131 °F (55 °C) 0.1 m	
IK degree of protection	IK06 conforming to IEC 50102	

Standards	IEC 60947-1	
Otandardo	IEC 60947-5-4	
	JIS C8201-5-1	
	IEC 60947-5-1 CSA C22.2 No 14	
	UL 508	
	JIS C8201-1	
Product Certifications	CSA[RETURN]DNV[RETURN]LROS (Lloyds register of shipping) [RETURN]GL[RETURN]BV[RETURN]UL Listed	
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		
Category	US10CS222467	
Discount Schedule	0CS2	
GTIN	3606489765224	
Returnability	No	
Country of origin	FR	
Dealth and the		
Packing Units	DOF.	
Unit Type of Package 1	PCE .	
Number of Units in Package 1	1	
Package 1 Height	3.39 in (8.6 cm)	
Package 1 Width	1.30 in (3.3 cm)	
Package 1 Length	2.05 in (5.2 cm)	
Package 1 Weight	2.36 oz (67.0 g)	
Offer Sustainability		
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		

Pro-active compliance (Product out of EU RoHS legal scope)

Yes

Yes

EU RoHS Directive

China RoHS Regulation

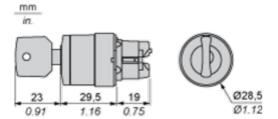
RoHS exemption information

Mercury free

Product data sheet Dimensions Drawings

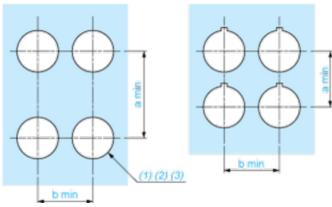
ZB5AG212C0

Dimensions



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

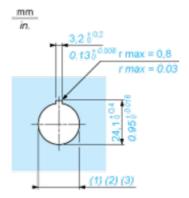
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (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) 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

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:
 - $\circ \quad$ 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

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 \cdot .

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Electrical Composition Corresponding to Code C5 Electrical Composition Corresponding to Code C6 Electrical Composition Corresponding to Code C6 Electrical Composition Corresponding to Code C7	
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Electrical Composition Corresponding to Code C7	Electrical Composition Corresponding to Code C5
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Electrical Composition Corresponding to Code C7	
Electrical Composition Corresponding to Code C7	
Electrical Composition Corresponding to Code C7	
	Electrical Composition Corresponding to Code C6
Electrical Composition Corresponding to Code C8	Electrical Composition Corresponding to Code C7
Electrical Composition Corresponding to Code C8	
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Electrical Composition Corresponding to Code C8	
Electrical Composition Corresponding to Code C8	
	Electrical Composition Corresponding to Code C8

Electrical Composition Corresponding to Code C3
Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1
Legend
Single contact
Double contact
Light block
Possible location



Sequence of Contacts Fitted to 2-position Selector Switch Body

Position 315°



Push	Position	Тор			
Bottom	\triangle	\triangle	\triangle		
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	