ZB4BG012

Head for key selector switch, Harmony XB4, black key, 22mm, 3 positions, key withdrawal in any position, key 421E





Main

Range of Product	Harmony XB4
Product or Component Type	Head for key selector switch
Device short name	ZB4
Bezel material	Chromium plated metal
Mounting diameter	0.87 in (22 mm)
Head type	Standard
Sale per indivisible quantity	1
Shape of signaling unit head	Round
Operator profile	Black key switch
Type of operator	Stay put
Operator position information	3 positions +/- 45°
Type of Keylock	Key 421E
Key withdrawal position	In any position

Complementary

Device presentation	Basic element	
	C11 3 single front mounting	
	C8 4 single and double front mounting	
	C7 4 single front mounting	
	C6 5 single and double front mounting	
	C5 5 single front mounting	
	C4 6 single and double front mounting	
Electrical composition code	C3 6 single front mounting	
Mechanical durability	1000000 cycles	
Resistance to high pressure washer	1015.26 psi (7000000 Pa) 131 °F (55 °C) 0.1 m	
Net Weight	0.22 lb(US) (0.098 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)	

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 I IEC 60536
IP degree of protection	IP66 IEC 60529 IP67 IP69 IP69K
NEMA degree of protection	NEMA 13 NEMA 4X

Standards	EN/IEC 60947-5-5
	UL 508
	EN/IEC 60947-5-4
	CSA C22.2 No 14
	GB 14048.5
	EN/IEC 60947-5-1
	EN/IEC 60947-1
Product Certifications	BV[RETURN]GL[RETURN]DNV[RETURN]LROS (Lloyds register of shipping) [RETURN]UL Listed[RETURN]CSA
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	22468-PUSHBUTTONS,22MM(METAL) NEW		
Discount Schedule	CS2		
GTIN	3389110121001		
Returnability	Yes		
Country of origin	FR		

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.10 in (5.334 cm)
Package 1 Width	1.40 in (3.556 cm)
Package 1 Length	3.40 in (8.636 cm)
Package 1 Weight	3.52 oz (99.791 g)
Unit Type of Package 2	BB1
Number of Units in Package 2	5
Package 2 Height	3.39 in (8.6 cm)
Package 2 Width	10.24 in (26 cm)
Package 2 Length	1.30 in (3.3 cm)
Package 2 Weight	18.34 oz (520 g)
Unit Type of Package 3	S03
Number of Units in Package 3	100
Package 3 Height	11.81 in (30 cm)
Package 3 Width	11.81 in (30 cm)
Package 3 Length	15.75 in (40 cm)
Package 3 Weight	24.38 lb(US) (11.058 kg)

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)	
Mercury free	Yes	
China RoHS Regulation	China RoHS Declaration	
RoHS exemption information	€Yes	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End Of Life Information	

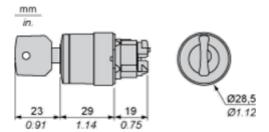
Contractual warranty

101	10 11	
Warrantv	18 months	

Product data sheet Dimensions Drawings

ZB4BG012

Dimensions



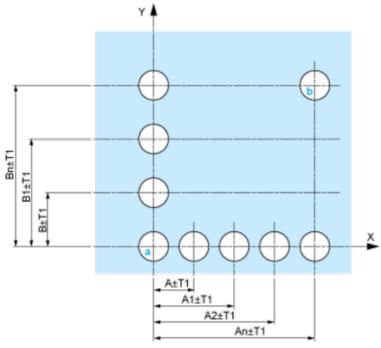
Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

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

- (1) Diameter on finished panel or support
- (2) 40 mm min. / 1.57 in. min.
- (3) 30 mm min. / 1.18 in. min.
- (4) Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm $_0$ $^{+0.4}$ / 0.88 in. $_0$ $^{+0.016}$)
- (5) 45 mm min. / 1.78 in. min.
- (6) 32 mm min. / 1.26 in. min.

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

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

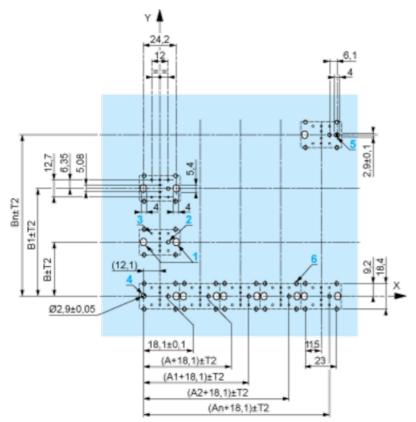


A: 30 mm min. / 1.18 in. min.

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

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

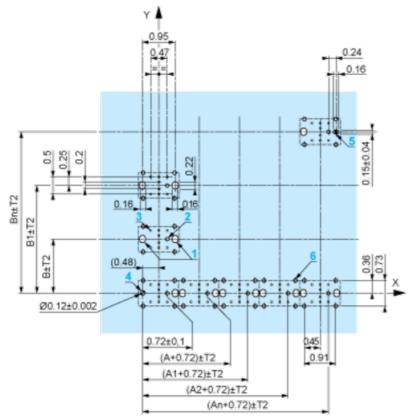
Dimensions in mm



A: 30 mm min.

B: 40 mm min.

Dimensions in in.



A: 1.18 in. min.

B: 1.57 in. min.

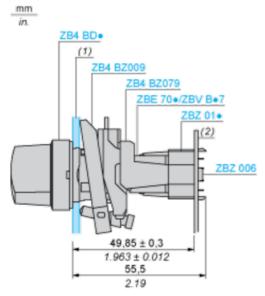
General Tolerances of the Panel and Printed Circuit Board

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 ZB4 BZ009: ± 2 30' (excluding cut-outs marked a and b).
- Tightening torque of screws ZBZ 006: 0.6 N.m (5.3 lbf.in) max.
- Allow for one ZB4 BZ079 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 (ZB4 BD•, ZB4 BJ•, ZB4 BG•).

The fixing centers marked a and b are diagonally opposed and must align with those marked 4 and 5.



- (1) Panel
- (2) Printed circuit board

Mounting of Adapter (Socket) ZBZ 01•

- 1 2 elongated holes for ZBZ 006 screw access
- 2 1 hole Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 for centring adapter ZBZ 01•
- 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 ZBZ 01•

Dimensions An + 18.1 relate to the Ø 2.4 mm \pm 0.05 / 0.09 in. \pm 0.002 holes for centring adapter ZBZ 01•.

Electrical Composition Corresponding to Code C3
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 Codes C9, C11, SF1 and SR1 Legend Single contact Double contact Possible location	
Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1 Legend Single contact Light block	Flactrical Common this a Common and in a to Code CO
Legend Single contact Double contact Light block	Electrical Composition Corresponding to Code C8
Legend Single contact Double contact Light block	
Legend Single contact Double contact Light block	
Legend Single contact Double contact Light block	
Legend Single contact Double contact Light block	
Single contact Double contact Light block	Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1
Single contact Double contact Light block	
Single contact Double contact Light block	
Single contact Double contact Light block	
Double contact Light block	Legend
Light block	Single contact
Light block	
Light block	
Light block	Double contact
Possible location	Light block
Possible location	
Possible location	
Possible location	Describle leasting
	Possible location

Position 315°





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