Specifications





Head for key selector switch, Harmony XB4, 22mm 3 position spring return 421E

ZB4BG712

Product availability: Non-Stock - Not normally stocked in distribution facility

Price*: 90.00 USD

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	0.9 in (22 mm)			
Head type	Standard			
Sale per indivisible quantity	1			
Shape of signaling unit head	Round			
Return	To centre			
Operator profile	Black key switch			
Type of operator	Spring return			
Operator position information	3 positions +/- 45°			
type of keylock	Key 421E			
Key withdrawal position	Center			

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	1015.3 psi (7000000 Pa) 131.0000000000 °F (55 °C) 0.1 m				
Net Weight	0.216 lb(US) (0.098 kg)				
CAD overall depth	2.8 in (72 mm)				
CAD overall height	1.1 in (29 mm)				
CAD overall width	1.1 in (29 mm)				

Environment

protective treatment TH

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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Ambient Air Temperature for Storage	-40.0000000000158.00000000000 °F (-4070 °C)				
Ambient Air Temperature for Operation	-40.0000000000158.0000000000 °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 GB 14048.5 EN/IEC 60947-5-4 CSA C22.2 No 14 EN/IEC 60947-5-1 EN/IEC 60947-1 UL 508				
Product Certifications	CSA GL UL Listed BV LROS (Lloyds register of shipping) DNV				
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	US10CS222468			
Discount Schedule	0CS2			
GTIN	3389110122299			
Returnability	No			
Country of origin	FR			

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.09 in (5.3 cm)
Package 1 Width	1.3 in (3.4 cm)
Package 1 Length	3.4 in (8.7 cm)
Package 1 Weight	3.6 oz (103.0 g)
Unit Type of Package 2	S02
Number of Units in Package 2	50
Package 2 Height	5.9 in (15.0 cm)
Package 2 Width	11.8 in (30.0 cm)
Package 2 Length	15.7 in (40.0 cm)
Package 2 Weight	12.108 lb(US) (5.492 kg)

Contractual warranty

Warranty 18 months



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Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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Transparency RoHS/REACh

Well-being performance



Mercury Free



Rohs Exemption Information

Yes

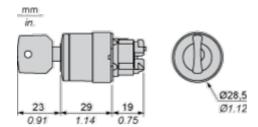
Certifications & Standards

Reach Regulation	REACh Declaration				
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)				
China Rohs Regulation	China RoHS declaration				
Environmental Disclosure	Product Environmental Profile				
Circularity Profile	End of Life Information				
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				

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Dimensions Drawings

Dimensions

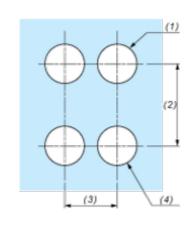


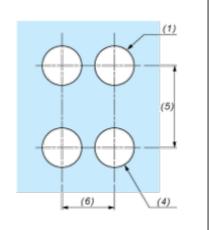
Mounting and Clearance

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

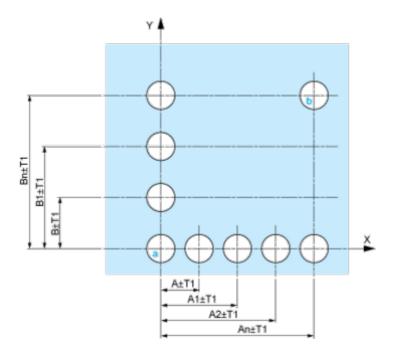




- (1) Diameter on finished panel or support
- (2) 40 mm min. / 1.57 in. min.
- (3) 30 mm min. / 1.18 in. min.
- (4) Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm $_0^{+0.4}$ / 0.88 in. $_0^{+0.016}$)
- (5) 45 mm min. / 1.78 in. min.
- (6) 32 mm min. / 1.26 in. min.

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

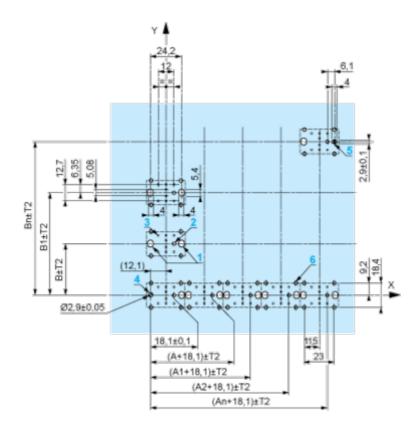
Panel Cut-outs (Viewed from Installer's Side)



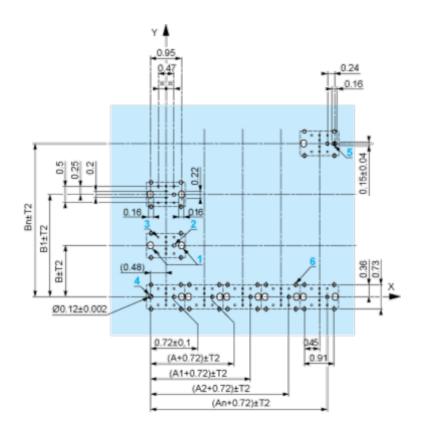
A: 30 mm min. / 1.18 in. min. **B:** 40 mm min. / 1.57 in. min.

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

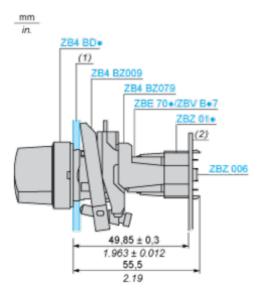
The cumulative tolerance must not exceed 0.3 mm / 0.012 in: T1 + T2 = 0.3 mm max.

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:
 - $_{\circ}\;$ 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**.

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- (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•
- 3 8 × Ø 1.2 mm / 0.05 in. holes
- $_{ullet}$ 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 ZBZ 01∙

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

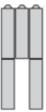
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Technical Description



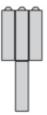


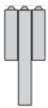
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Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1



Legend

Single contact



Double contact



Light block



Possible location



Sequence of Contacts Fitted to 3-position Selector Switch Body

Position 315°



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

Position 0°



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

Position 45°



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