Specifications



Harmony XB4, Key switch selector head, metal, black, Ø22, key 455, 3 positions, stay put

ZB4BG0

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	22 mm		
Head type	Standard		
Sale per indivisible quantity	1		
Shape of signaling unit head	Round		
Operator profile	Black key switch		
Operator position information	3 positions +/- 45°		
Type of keylock	Key 455		
Key withdrawal position	In any position		

Complementary

CAD overall width	29 mm
CAD overall height	29 mm
CAD overall depth	72 mm
Net weight	0.098 kg
Resistance to high pressure washer	7000000 Pa at 55 °C, distance : 0.1 m
Mechanical durability	1000000 cycles
Electrical composition code	C3 for <6 contacts using single blocks in front mounting 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
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 I conforming to IEC 60536
IP degree of protection	IP66 conforming to IEC 60529 IP67 IP69 IP69K
NEMA degree of protection	NEMA 13 NEMA 4X
IK degree of protection	IK06 with keyhole cover ZBGP conforming to IEC 50102
Standards	EN/IEC 60947-5-1 EN/IEC 60947-1 CSA C22.2 No 14 EN/IEC 60947-5-4 GB 14048.5 UL 508 EN/IEC 60947-5-5
Product certifications	LROS (Lloyds register of shipping) CSA BV GL DNV 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	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	8.8 cm
Package 1 Width	5.2 cm
Package 1 Length	3.4 cm
Package 1 Weight	102 g
Unit Type of Package 2	BB1
Number of Units in Package 2	5
Package 2 Height	8.8 cm
Package 2 Width	26.5 cm
Package 2 Length	3.3 cm
Package 2 Weight	519 g
Unit Type of Package 3	S03
Number of Units in Package 3	100
Package 3 Height	30 cm
Package 3 Width	30 cm
Package 3 Length	40 cm
Package 3 Weight	10.725 kg
Offer Sustainability	
Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes

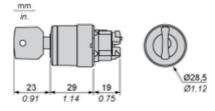
China RoHS Regulation	China RoHS declaration			
Clilla Kons Kegulation	Cilila Rono deciaration			
RoHS exemption information	Yes			
Environmental Disclosure	Product Environmental Profile			
Circularity Profile	End of Life Information			
California proposition 65	WARNING: This product can expose you to 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			
Contractual warranty				
Managati	19 months			

Warranty 18 months

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Dimensions Drawings

Dimensions



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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

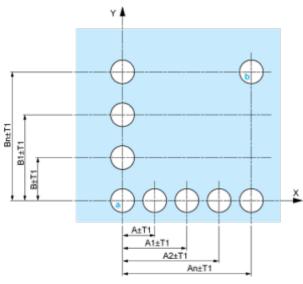
Connection by Faston Connectors

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)

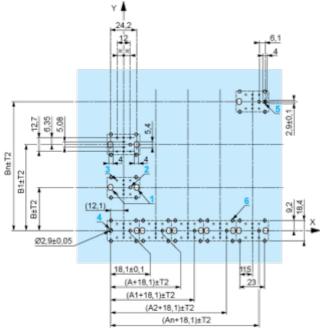


A: 30 mm min. / 1.18 in. min.

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

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

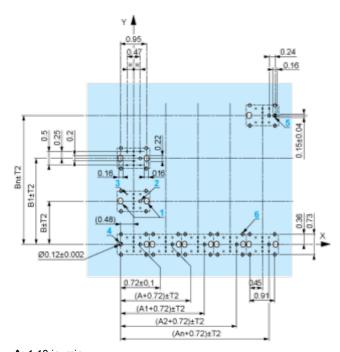
Dimensions in mm



A: 30 mm min.

B: 40 mm min.

Dimensions in in.



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

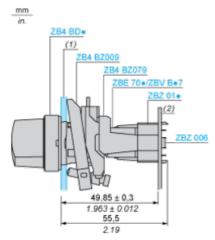
General Tolerances of the Panel and Printed Circuit Board

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

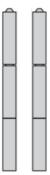
Mounting of Adapter (Socket) ZBZ 01•

- 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•
- 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)
- $\bullet~$ 6 4 holes Ø 2.4 mm / 0.09 in. for clipping in adapter ZBZ 01 $\bullet~$

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•.

ZB4BG0

Technical Description



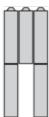
ZB4BG0

Technical Description



Product data sheet ZB4BG0

Technical Description



ZB4BG0

Technical Description



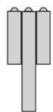
Technical Description

ZB4BG0



ZB4BG0

Technical Description



ZB4BG0

Technical Description

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



ZB4BG0

Technical Description

Lea	en	d
Leg	en	u

Single contact



Double contact



Light block



Possible location



ZB4BG0

Technical Description

Sequence of Contacts Fitted to 3-position Selector Switch Body

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	\triangle	\triangle	\triangle
	Location		Left	Centre	Right
	State		0	0	0
Contacts	N/O N/C		open	open	open
			closed	closed	closed

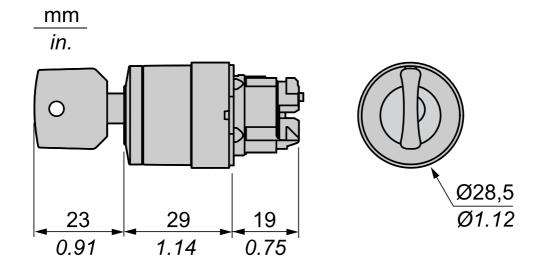
Position 45°

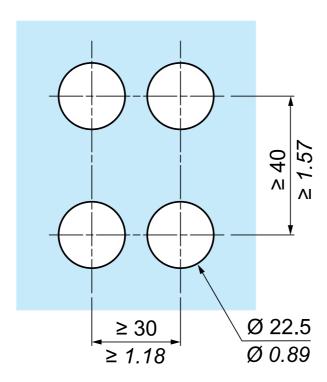


Push	Position	Тор			
		Bottom	\triangle		
	Location		Left	Centre	Right
	State		0	1	1
Contacts	N/O N/C		open	closed	closed
			closed	open	open

Technical Illustration

Dimensions





Recommended replacement(s)