Product datasheet

Specification





3POS SPRING RET KEY SELECTOR

Local distributor code: 237091730

ZB4BG8

EAN Code: 3389110889291

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	22 mm			
Head Type	Standard			
Sale Per Indivisible Quantity	1			
Shape Of Signaling Unit Head	Round			
Return	Right to centre			
Operator Profile	Black key switch			
Operator Position Information	3 positions +/- 45°			
Type Of Keylock	Key 455			
Key Withdrawal Position	Center			

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 60947-5-5				
	UL 508				
	EN/IEC 60947-5-1				
	EN/IEC 60947-5-4				
	GB 14048.5				
	CSA C22.2 No 14				
	EN/IEC 60947-1				
Product Certifications	BV				
	CSA				
	DNV				
	GL				
	LROS (Lloyds register of shipping)				
	1				
	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	3.4 cm
Package 1 Width	5.5 cm
Package 1 Length	9.1 cm
Package 1 Weight	103 g
Unit Type Of Package 2	BB1
Number Of Units In Package 2	5
Package 2 Height	8.6 cm
Package 2 Width	26 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	10.942 kg

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance



Mercury Free



Rohs Exemption Information

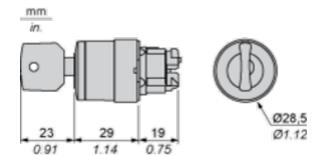
Yes

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		

Dimensions Drawings

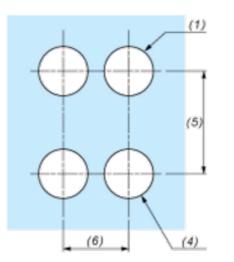
Dimensions



Mounting and Clearance

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

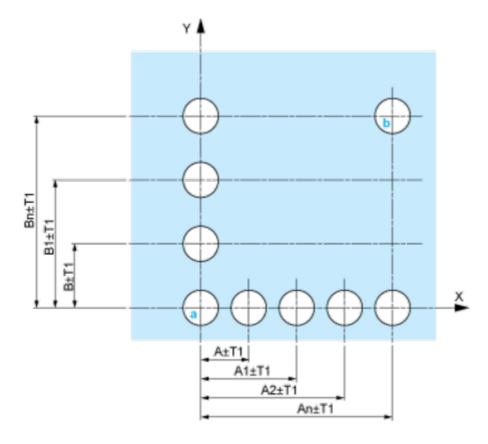
Connection by Screw Clamp Terminals or Plug-in **Connection by Faston Connectors Connectors or on Printed Circuit Board** (1)(2)(3)(4)



- (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

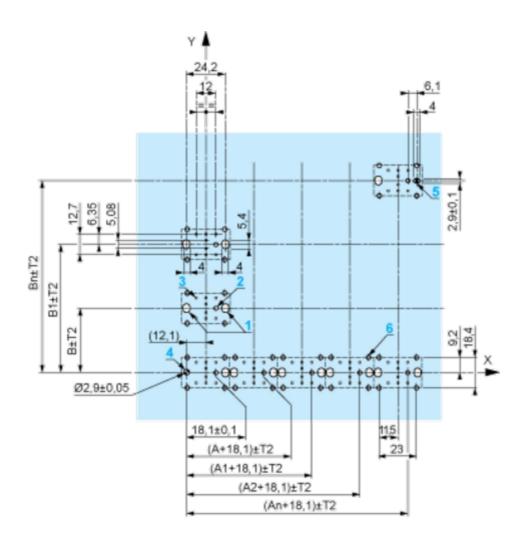
Panel Cut-outs (Viewed from Installer's Side)



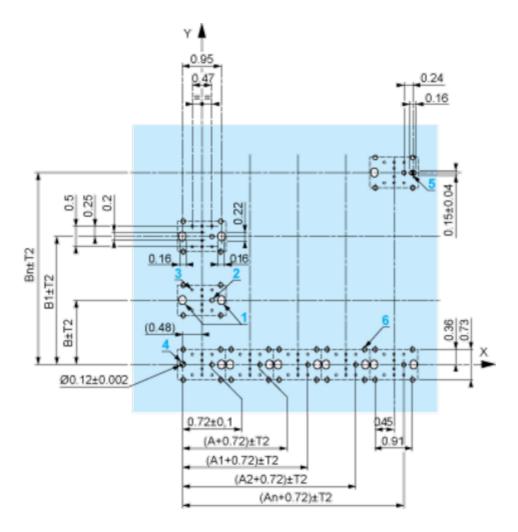
A: 30 mm min. / 1.18 in. min. **B:** 40 mm min. / 1.57 in. min.

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

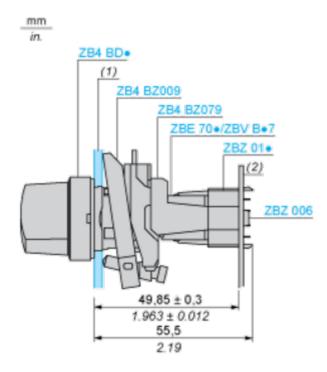
The cumulative tolerance must not exceed 0.3 mm / 0.012 in: T1 + T2 = 0.3 mm max.

Installation Precautions

- $_{\bullet}$ 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.

7 May 2024



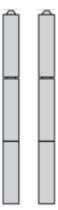
- (1) Panel
- (2) Printed circuit board

Mounting of Adapter (Socket) ZBZ 01•

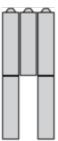
- 1 2 elongated holes for ZBZ 006 screw access
- 2 1 hole Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 for centring adapter ZBZ 01•
- 3 8 × Ø 1.2 mm / 0.05 in. holes
- 4 1 hole Ø 2.9 mm ± 0.05 / 0.11 in. ± 0.002, for aligning the printed circuit board (with cut-out marked a)
- 5 1 elongated hole for aligning the printed circuit board (with cut-out marked b)
- 6 4 holes Ø 2.4 mm / 0.09 in. for clipping in adapter ZBZ 01•

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

Technical Description

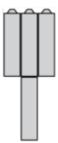


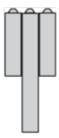






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Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1

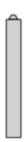


Legend

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°



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

Product datasheet

ZB4BG8

Position 45°



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