

# 3POS SPRING RET KEY SELECTOR

Local distributor code: 237091743 ZB4BG08

EAN Code: 3389110889321

### 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			
Type of operator	Spring return			
Operator position information	3 positions +/- 45°			
Type of keylock	Key 455			
Key withdrawal position	Left			

### Complementary

**Device presentation** 

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

Aug 16, 2023 Life Is On Schneider 1

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 UL 508 EN/IEC 60947-1 EN/IEC 60947-5-4 GB 14048.5 CSA C22.2 No 14 EN/IEC 60947-5-5		
Product certifications	DNV GL CSA LROS (Lloyds register of shipping) UL listed BV		
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**

PCE
1
3.5 cm
5.5 cm
9.2 cm
103 g
S03
100
30 cm
30 cm
40 cm
10.836 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				
RoHS exemption information	Yes				

<b>Environmental Disclosure</b>	Product Environmental Profile			
Circularity Profile	End of Life Information			
Contractual warranty				

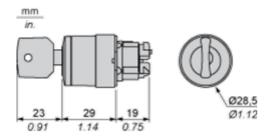
18 months

Warranty

### **ZB4BG08**

**Dimensions Drawings** 

#### **Dimensions**



### **ZB4BG08**

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)

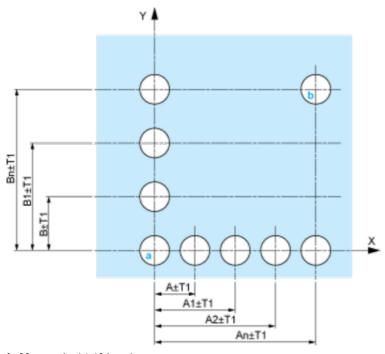
(2)

(5)

- (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

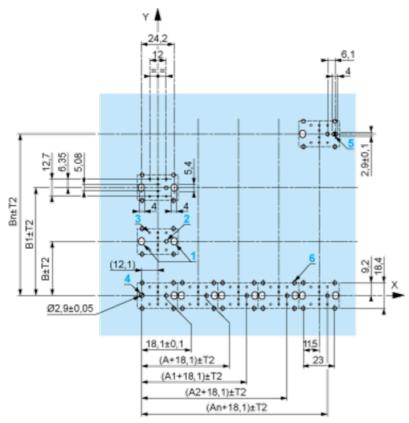
#### Panel Cut-outs (Viewed from Installer's Side)



**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)

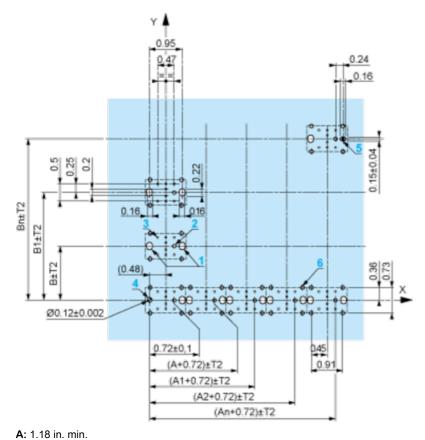
Dimensions in mm



**A:** 30 mm min.

**B**: 40 mm min.

Dimensions in in.



**B:** 1.57 in. min.

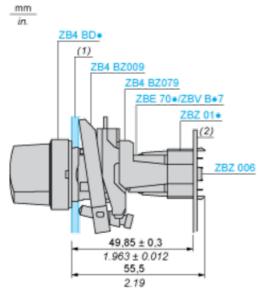
#### General Tolerances of the Panel and Printed Circuit Board

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).
  - $\circ$   $\,$  with each selector switch head (ZB4 BD•, ZB4 BJ•, ZB4 BG•).

The fixing centers marked  ${\bf a}$  and  ${\bf b}$  are diagonally opposed and must align with those marked  ${\bf 4}$  and  ${\bf 5}$ .



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

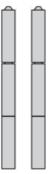
#### Mounting of Adapter (Socket) ZBZ 01•

- 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  $\pm$  0.05 / 0.11 in.  $\pm$  0.002, for aligning the printed circuit board (with cut-out marked a)
- ${\bf 5}$  1 elongated hole for aligning the printed circuit board (with cut-out marked  ${\bf b}$ )
- 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•.

**ZB4BG08** 

Technical Description



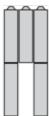
**ZB4BG08** 

Technical Description



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Technical Description



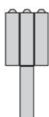
**ZB4BG08** 

Technical Description



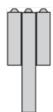
**ZB4BG08** 

Technical Description



**ZB4BG08** 

Technical Description



**ZB4BG08** 

**Technical Description** 

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



**Technical Description** 

Lea	en	d
Leg	en	u

Single contact



Double contact



Light block



Possible location



### **ZB4BG08**

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	ontacts N/O N/C		open	open	open
			closed	closed	closed

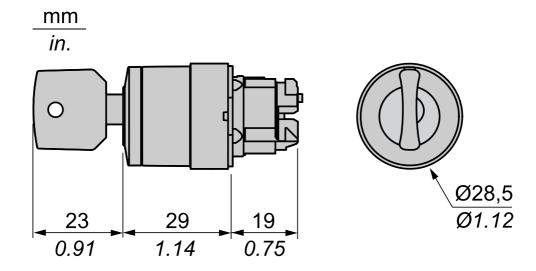
### Position 45°

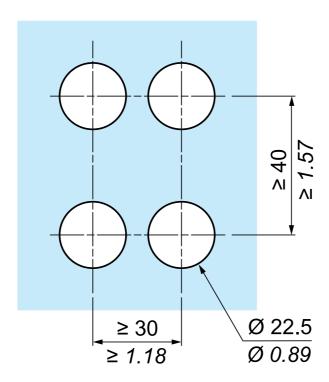


Push	Position	Тор			
		Bottom	$\triangle$		
	Location		Left	Centre	Right
	State		0	1	1
Contacts	N/O N/C		open	closed	closed
			closed	open	open

**Technical Illustration** 

#### **Dimensions**





Recommended replacement(s)