Specifications



① Discontinued

selector switch head Ø22 3-position stay put Key 520E

ZB4BG09147

- () Discontinued on: Dec 2, 2020
- (!) End-of-service on: Dec 31, 2020

Main

in an i			
Range Of Product	Harmony XB4		
Product Or Component Type	Head for key selector switch		
Device Short Name	ZB4		
Bezel Material	Black metal		
Mounting Diameter	0.87 in (22 mm)		
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 520E		
Key Withdrawal Position	Right		

Complementary

Cad Overall Width	1.14 in (29 mm)			
Cad Overall Height	1.14 in (29 mm)			
Cad Overall Depth	2.83 in (72 mm)			
Net Weight	0.22 lb(US) (0.098 kg)			
Resistance To High Pressure Washer	1015.26 psi (7000000 Pa) 131 °F (55 °C) 0.1 m			
Mechanical Durability	1000000 cycles			
Electrical Composition Code	C3 6 single front mounting C4 6 single and double front mounting C5 5 single front mounting C6 5 single and double front mounting C7 4 single front mounting C8 4 single and double front mounting C11 3 single front mounting			
Device Presentation	Basic element			

Environment

Protective Treatment	тн
Ambient Air Temperature For Storage	-40158 °F (-4070 °C)
Ambient Air Temperature For Operation	-40158 °F (-4070 °C)

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

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 60947-5-4 EN/IEC 60947-1 CSA C22.2 No 14 UL 508 EN/IEC 60947-5-1 EN/IEC 60947-5-5 GB 14048.5
Product Certifications	UL Listed GL LROS (Lloyds register of shipping) DNV CSA BV
Vibration Resistance	5 gn 2500 Hz)IEC 60068-2-6
hock Resistance30 gn 18 ms) half sine wave acceleration IEC 60068-2-2750 gn 11 ms) half sine wave acceleration IEC 60068-2-27	

Ordering and shipping details

Gtin

3389110832785

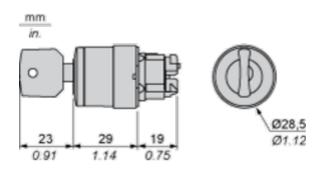
Contractual warranty

Warranty

18 months

Dimensions Drawings

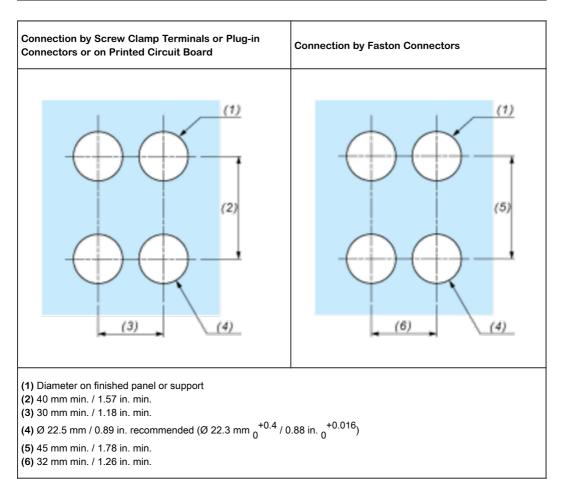
Dimensions



Product data sheet ZB4BG09147

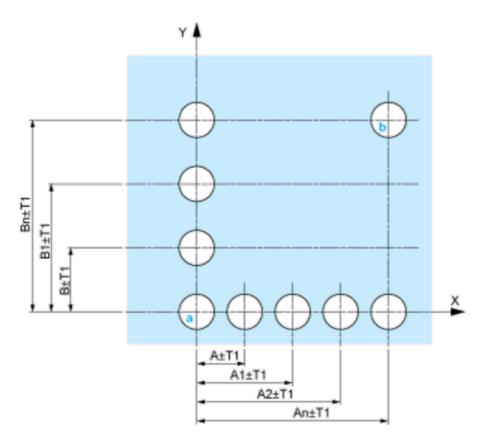
Mounting and Clearance

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



Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

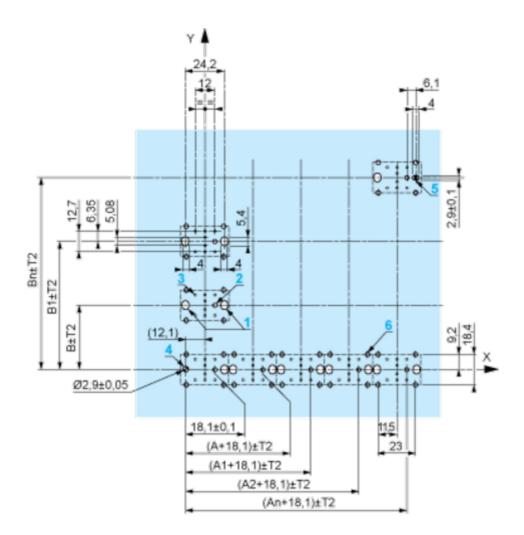
Panel Cut-outs (Viewed from Installer's Side)



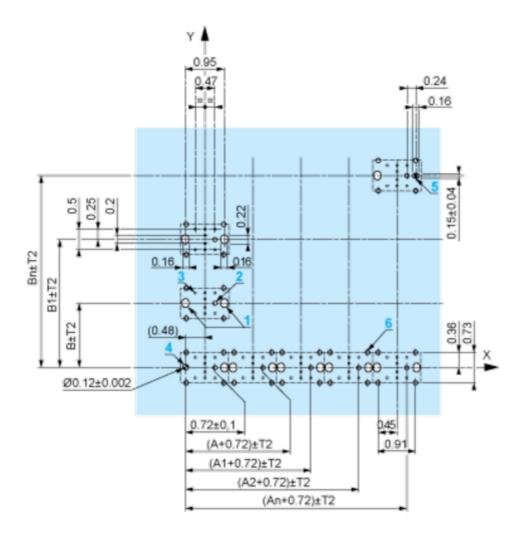
A: 30 mm min. / 1.18 in. min. **B:** 40 mm min. / 1.57 in. min.

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.

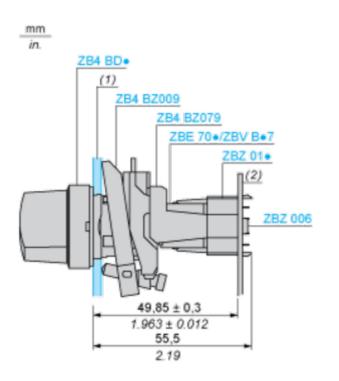
General Tolerances of the Panel and Printed Circuit Board

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.



(1) Panel

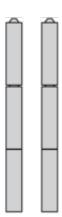
(2) Printed circuit board

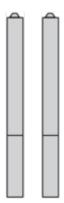
Mounting of Adapter (Socket) ZBZ 01•

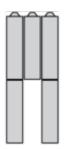
- 1 2 elongated holes for ZBZ 006 screw access
- $_{\bullet}$ 2 1 hole Ø 2.4 mm \pm 0.05 / 0.09 in. \pm 0.002 for centring adapter ZBZ 01-
- 3 8 × Ø 1.2 mm / 0.05 in. holes
- 4 1 hole Ø 2.9 mm ± 0.05 / 0.11 in. ± 0.002, for aligning the printed circuit board (with cut-out marked a)
- 5 1 elongated hole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

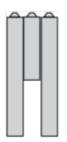
Dimensions An + 18.1 relate to the Ø 2.4 mm \pm 0.05 / 0.09 in. \pm 0.002 holes for centring adapter ZBZ 01.

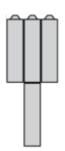
Technical Description

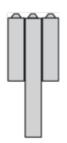












Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1



Legend

Single contact



Double contact



Light block



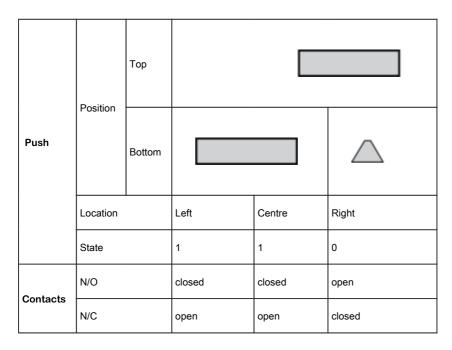
Possible location



Sequence of Contacts Fitted to 3-position Selector Switch Body

Position 315°





Position 0°



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

Position 45°



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