

(!) Discontinued

# Head for key selector switch, Harmony XB4, Ø22 mm 3 position stay put 5 multichips

ZB4BG09C

! Discontinued on: Dec 2, 2020



! End-of-service on: Dec 31, 2020

#### 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	0.87 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	Special key			
Product Compatibility	5 multi-chip			
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)		
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	-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.

Ambient Air Temperature For Operation	-13158 °F (-2570 °C)		
Overvoltage Category	Class I IEC 60536		
Ip Degree Of Protection	IP69K IEC 60529		
Nema Degree Of Protection	NEMA 13 NEMA 4X		
Standards	EN/IEC 60947-5-4 GB 14048.5 EN/IEC 60947-5-5 EN/IEC 60947-5-1 EN/IEC 60947-1 CSA C22.2 No 14 UL 508		
Product Certifications	LROS (Lloyds register of shipping) CSA UL Listed GL BV 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 Gtin 3389110846393

# **Contractual warranty**

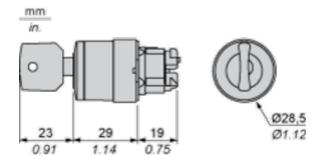
Warranty 18 months

# **Product data sheet**

## ZB4BG09C

**Dimensions Drawings** 

#### **Dimensions**



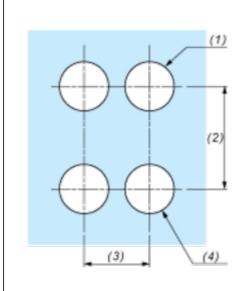
#### ZB4BG09C

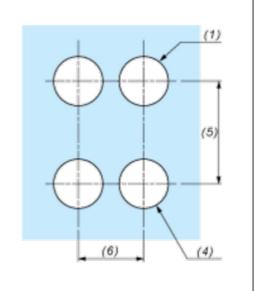
#### Mounting and Clearance

# 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** 

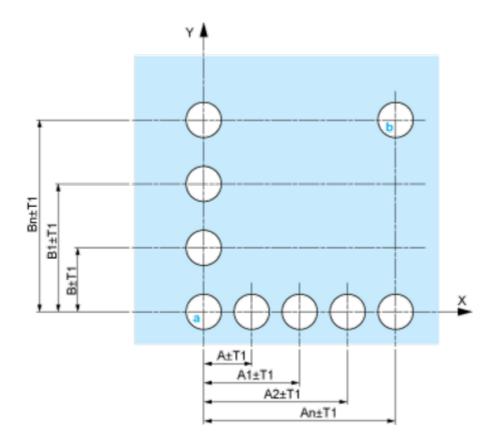




- (1) Diameter on finished panel or support
- (2) 40 mm min. / 1.57 in. min.
- (3) 30 mm min. / 1.18 in. min.
- (4) Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm  $_0^{+0.4}$  / 0.88 in.  $_0^{+0.016}$ )
- (5) 45 mm min. / 1.78 in. min.
- (6) 32 mm min. / 1.26 in. min.

#### Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

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

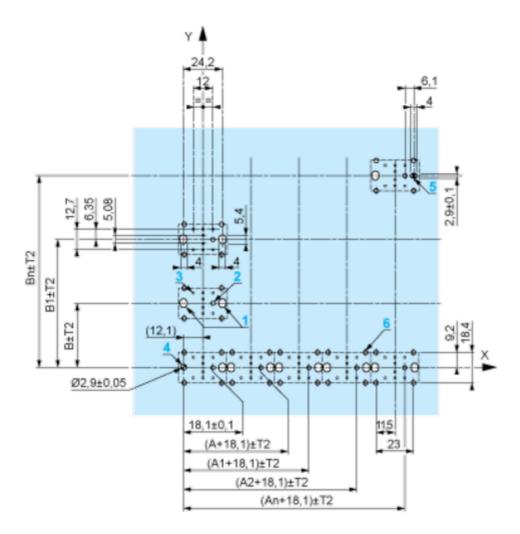


**A:** 30 mm min. / 1.18 in. min. **B:** 40 mm min. / 1.57 in. min.

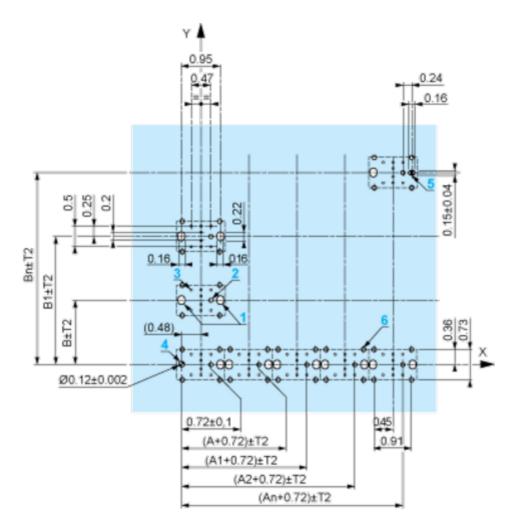
Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

Dimensions in mm

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**A:** 30 mm min. **B:** 40 mm min.



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

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

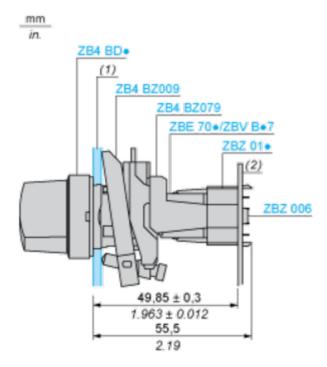
The cumulative tolerance must not exceed 0.3 mm / 0.012 in: T1 + T2 = 0.3 mm max.

#### **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.

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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
- 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•

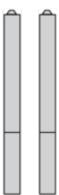
Dimensions An + 18.1 relate to the Ø 2.4 mm  $\pm$  0.05 / 0.09 in.  $\pm$  0.002 holes for centring adapter ZBZ 01•.

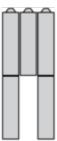
# **Product data sheet**

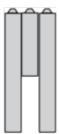
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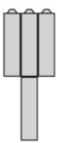
**Technical Description** 

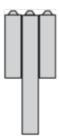












# **Product data sheet**

# ZB4BG09C

**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°



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

#### Position 45°



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