ZB4BS12C

black Ø40 mushroom pushbutton head Ø22 latching key release



Main Range

Range of product	Harmony XB4
Product or component type	Head for non-illuminated push-button
Device short name	ZB4
Product compatibility	5 multi-chip
Bezel material	Chromium plated metal
Mounting diameter	0.87 in (22 mm)
Sale per indivisible quantity	1
Shape of signaling unit head	Round
Type of operator	latching
Reset	Key release
Operator profile	Black mushroom Ø 40 mm, unmarked
Type of keylock	Special key
Key withdrawal position	Center

Complementary

Mechanical durability	300000 cycles	
Electrical composition code	C11 3 single front mounting	
	C15 1 single front mounting	
	C7 4 single front mounting	
	C8 4 single and double front mounting	
	C10 4 single and double front mounting	

Environment

Environment			
Protective treatment	TH		
Ambient air temperature for storage	-40158 °F (-4070 °C)		
Ambient air temperature for operation	-13158 °F (-2570 °C)		
Overvoltage category	Class I IEC 60536		
IP degree of protection	IP66 IEC 60529		
NEMA degree of protection	NEMA 13 NEMA 4X		
IK degree of protection	IK03 IEC 50102		
Standards	EN/IEC 60947-5-4 EN/IEC 60947-5-1 CSA C22.2 No 14 UL 508 EN/IEC 60947-1 JIS C8201-5-1 EN/IEC 60947-5-5 JIS C8201-1		
Product certifications	DNV RINA CSA LROS (Lloyds register of shipping) BV UL Listed GL		
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	03389110085587	
Package weight(Lbs)	0.22 lb(US) (0.098 kg)	

Packing Units

Package 1 Height	0.540 dm
Package 1 width	0.880 dm
Package 1 Length	0.440 dm

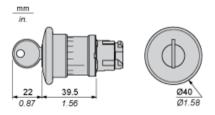
Contractual warranty

Warranty	18 months

Product data sheet Dimensions Drawings

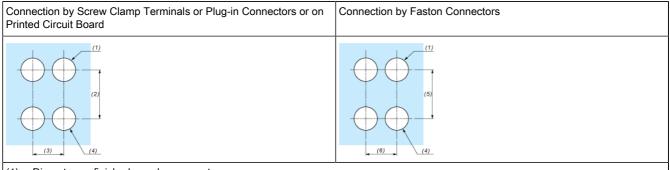
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Dimensions



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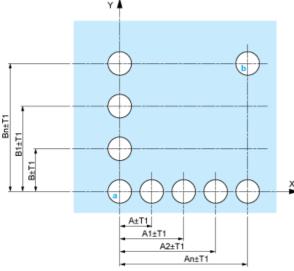
Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)



- (1) Diameter on finished panel or support
- (2) 40 mm min. / 1.57 in. min.
- (3) 30 mm min. / 1.18 in. min.
- (4) \varnothing 22.5 mm / 0.89 in. recommended (\varnothing 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

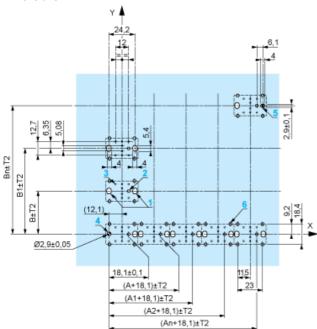
Panel Cut-outs (Viewed from Installer's Side)



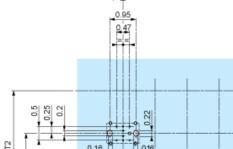
- A: 30 mm min. / 1.18 in. min.
- B: 40 mm min. / 1.57 in. min.

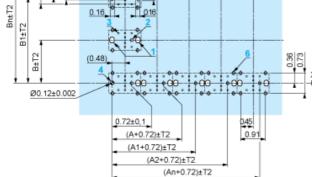
Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

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.

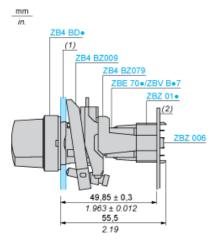
Installation Precautions

- 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).

0.16

- 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 \pm 0.05 / 0.11 in. \pm 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•.

ZB4BS12C

Electrical Composition Corresponding to Code C7
Electrical Compositions Corresponding to Code C8
Electrical Compositions Corresponding to Code C10
Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1
Electrical Composition Corresponding to Code C15
1 N/O 1 N/C
1 N/O + N/C or 1 N/O + N/O or 1 N/C + N/C

<u> </u>			
Sin	ale	cor	ıtact



Double contact



Light block



Possible location

