ZB4BW633

green Ø40 illum mushroom pushbutton head Ø22 latching for integral LED



Range of product	Harmony XB4
Product or component type	Head for illuminated pushbutton
Device short name	ZB4
Product compatibility	Integral LED
Bezel material	Chromium plated metal
Mounting diameter	22 mm
Sale per indivisible quantity	1
Shape of signaling unit head	Round
Type of operator	Latching
Reset	Push-pull
Operator profile	Green mushroom Ø 40 mm unmarked

Complementary

CAD overall width	40 mm	
CAD overall height	40 mm	
CAD overall depth	53 mm	
Product weight	0.051 kg	
Resistance to high pressure washer	7000000 Pa at 55 °C, distance: 0.1 m	
Mechanical durability	500000 cycles	

Environment

ZIII OI III OI II		
Protective treatment	TH	
Ambient air temperature for storage	-4070 °C	
Ambient air temperature for operation	-2570 °C	
Class of protection against electric shock	Class I conforming to IEC 60536	
IP degree of protection	IP66 conforming to IEC 60529	
NEMA degree of protection	NEMA 13 NEMA 4X	
IK degree of protection	IK05 conforming to EN 50102	
Standards	CSA C22-2 No 14 EN/IEC 60947-1 EN/IEC 60947-5-1 EN/IEC 60947-5-4 EN/IEC 60947-5-5 JIS C 4520 UL 508	
Product certifications	BV CSA DNV GL LROS (Lloyds register of shipping) RINA UL listed	
Vibration resistance	5 gn (f = 2500 Hz) conforming to IEC 60068-2-6	
Shock resistance	30 gn for 18 ms half sine wave acceleration conforming to IEC 60068-2-27 50 gn for 11 ms half sine wave acceleration conforming to IEC 60068-2-27	
RoHS EUR status	Compliant	
RoHS EUR conformity date	0646	

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsoliaries shall be responsible or liable for misuse of the information contained herein.

Dimensions of Heads for Illuminated Pushbuttons

Heads for Spring Return Illuminated Pushbuttons, for Light Source Types LED, ZB4 BW3•3, ZB4 BW3•3S, ZB4 BW5•3, ZB4 BA•8





LED, ZB4 BW1•3, ZB4 BL•8







LED, ZB4 BW9•3





Incandescent or neon, ZB4 BW3•3, ZB4 BW3•3S





Incandescent or neon, ZB4 BW1•







Heads for Ø 40 mm Mushroom Head Illuminated Pushbuttons with LED ZB4 BW4•3, ZB4 BW6•3

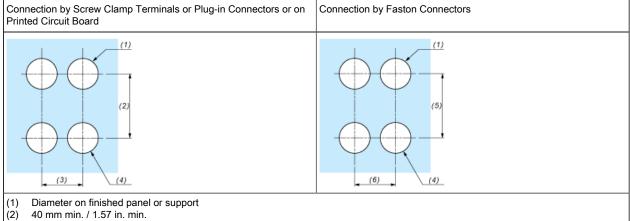


2.09



ZB4BW633

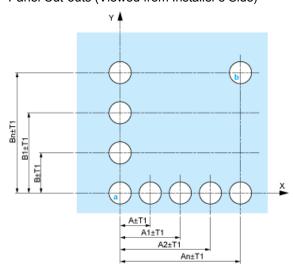
Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)



- (3) 30 mm min. / 1.18 in. min.
- (4) \emptyset 22.5 mm / 0.89 in. recommended (\emptyset 22.3 mm $_0$ ^{+0.4} / 0.88 in. $_0$ ^{+0.016})
- (5) (6) 45 mm min. / 1.78 in. min.
- 32 mm min. / 1.26 in. min.

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

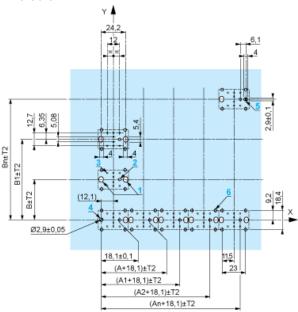
Panel Cut-outs (Viewed from Installer's Side)



- 30 mm min. / 1.18 in. min.
- 40 mm min. / 1.57 in. min.

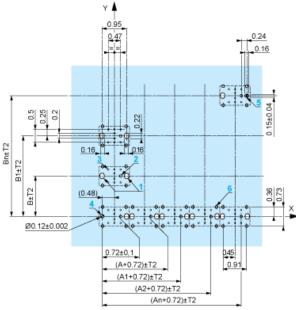
Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

Dimensions in mm



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

Dimensions in in.



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

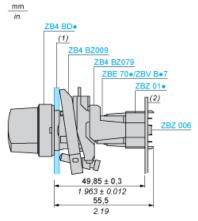
General Tolerances of the Panel and Printed Circuit Board

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:
 - 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 ± 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•.