Product data sheet Characteristics

ZB4BW643

red Ø40 Emerg switching off button head Ø22 latching push-pull for integral LED



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

Complementary

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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
Electrical composition code M10 for <= 2 contacts using single blocks in front mounting with integral LED M6 for <= 2 contacts using single blocks in front mounting with integral LED and transfor M3 for <= 4 contacts using single blocks in front mounting with integral LED M4 for <= 4 contacts using single and double blocks in front mounting with integral LED	
Environment	
Protective treatment	TH

Environment

Protective treatment	TH	<u>.</u>
Ambient air temperature for storage	-4070 °C	
Ambient air temperature for operation	-4070 °C	— <u>E</u>
Overvoltage category	Class I conforming to IEC 60536	
IP degree of protection	IP69 IP66 conforming to IEC 60529	ie i

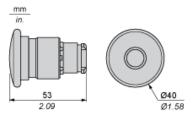
	IP69K		
NEMA degree of protection	NEMA 13		
	NEMA 4X		
IK degree of protection	IK05 conforming to EN 50102		
Standards	UL 508		
	CSA C22.2 No 14		
	JIS C 4520		
	EN/IEC 60947-1		
	IEC 60364-5-53		
	EN/IEC 60947-5-4		
	EN/IEC 60947-5-5		
	EN/IEC 60947-5-1		
Product certifications	UL listed		
	RINA		
	LROS (Lloyds register of shipping)		
	BV		
	DNV		
	CSA		
	GL		
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		

Warranty period 18 mont	
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Product data sheet Dimensions Drawings

ZB4BW643

Dimensions



ZB4BW643

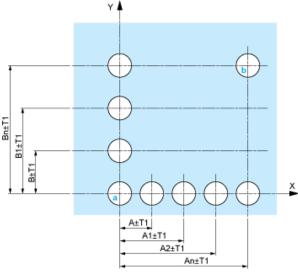
Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board	Connection by Faston Connectors
(2)	(5)

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

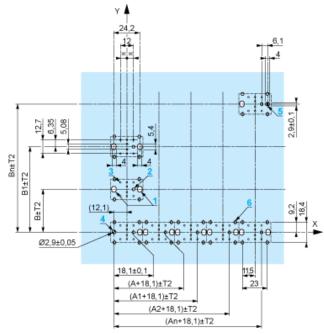
Panel Cut-outs (Viewed from Installer's Side)



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

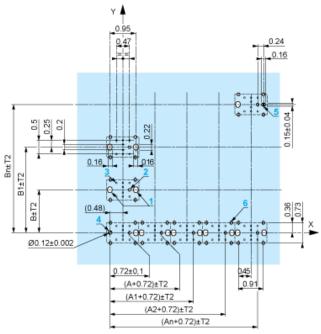
Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

Dimensions in mm



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

Dimensions in in.



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

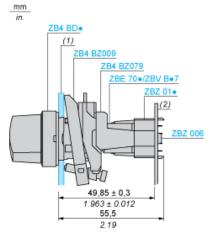
General Tolerances of the Panel and Printed Circuit Board

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:
 - 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

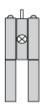
Mounting of Adapter (Socket) ZBZ 01•

- 1 2 elongated holes for ZBZ 006 screw access
- 2 1 hole Ø 2.4 mm \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 \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 ± 0.05 / 0.09 in. ± 0.002 holes for centring adapter ZBZ 01•.

ZB4BW643

Electrical Composition Corresponding to Code M3



ZB4BW643

Electrical Composition Corresponding to Code M4



ZB4BW643

Electrical Composition Corresponding to Codes M6 and P2



ZB4BW643

Electrical Composition Corresponding to Codes M5, M10, MF1, MR1 and MF2



ZB4BW643

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Single contact



Double contact



Light block



Possible location

