Product data sheet Characteristics

ZB4BK1243

red illuminated selector switch head Ø22 2position stay put



Harmony XB4 Head for illuminated selector switch Integral LED	
Integral LED	
<u> </u>	
ZB4	
Chromium plated metal	
Standard	
22 mm	
1	
Round	
Stay put	
Red standard handle	
2 positions 90°	
29 mm	
29 mm	
43 mm	
0.036 kg	
1000000 cycles	
M6 for 2 contacts using single blocks in front mounting with integral LED and transformer M10 for 2 contacts using single blocks in front mounting with integral LED 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	
	Standard 22 mm 1 Round Stay put Red standard handle 2 positions 90° 29 mm 29 mm 43 mm 0.036 kg 1000000 cycles M6 for 2 contacts using single blocks in front mounting with integral LED and transformer M10 for 2 contacts using single blocks in front mounting with integral LED M3 for 4 contacts using single blocks in front mounting with integral LED

Complementary

CAD overall width	29 mm
CAD overall height	29 mm
CAD overall depth	43 mm
Product weight	0.036 kg
Mechanical durability	1000000 cycles
Electrical composition code	M6 for 2 contacts using single blocks in front mounting with integral LED and transformer M10 for 2 contacts using single blocks in front mounting with integral LED 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	to
Ambient air temperature for storage	-4070 °C	. <u>. </u>
Ambient air temperature for operation	-4070 °C	red iz
Overvoltage category	Class I conforming to IEC 60536	
IP degree of protection	IP69 IP67 IP66 conforming to IEC 60529 IP69K	isolaimer.

NEMA degree of protection	NEMA 13 NEMA 4X		
IK degree of protection	IK06 conforming to IEC 50102		
Standards	EN/IEC 60947-1 EN/IEC 60947-5-1 EN/IEC 60947-5-4 EN/IEC 60947-5-5 JIS C 4520 UL 508 CSA C22.2 No 14		
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 (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		

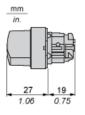
Contractual warranty

Warranty period	18 months
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Product data sheet Dimensions Drawings

ZB4BK1243

Dimensions





ZB4BK1243

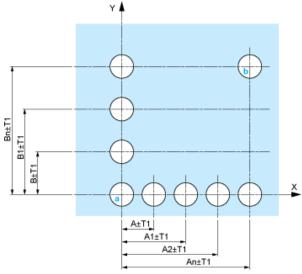
Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

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

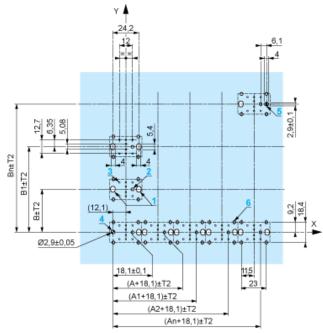
Panel Cut-outs (Viewed from Installer's Side)



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

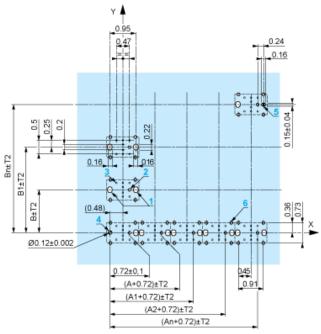
Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

Dimensions in mm



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

Dimensions in in.



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

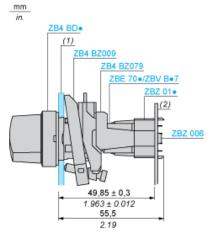
General Tolerances of the Panel and Printed Circuit Board

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

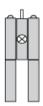
Mounting of Adapter (Socket) ZBZ 01•

- 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•.

ZB4BK1243

Electrical Composition Corresponding to Code M3



ZB4BK1243

Electrical Composition Corresponding to Code M4



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Electrical Composition Corresponding to Codes M6 and P2



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



ZB4BK1243

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Single contact



Double contact



Light block



Possible location



ZB4BK1243

Sequence of Contacts Fitted to 2-position Selector Switch Body

Position 315°



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

Position 45°



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