Product datasheet Characteristics

ZB4BK1533

green illuminated selector switch head Ø22 3-position spring return



Main

Range of product	Harmony XB4	
Product or component type	Head for illuminated selector switch	
Product compatibility	Integral LED	
Device short name	ZB4	
Bezel material	Chromium plated metal	
Mounting diameter	22 mm	
Sale per indivisible quantity	1	
Shape of signaling unit head	Round	
Type of operator	Spring return to centre	
Operator profile	Green standard handle	
Operator position information	3 positions +/- 45°	:

Complementary

CAD overall width	29 mm
CAD overall height	29 mm
CAD overall depth	43 mm
Product weight	0.036 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 transformer 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

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Protective treatment	TH	his d
Ambient air temperature for storage	-4070 °C	
Ambient air temperature for operation	-4070 °C	-clair

Overvoltage category	Class I conforming to IEC 60536		
Class of protection against electric shock	Class I conforming to IEC 60536		
IP degree of protection	IP69 IP67 IP66 conforming to IEC 60529 IP69K		
NEMA degree of protection	NEMA 13 NEMA 4X		
IK degree of protection	IK06 conforming to IEC 50102		
Standards	CSA C22.2 No 14 EN/IEC 60947-5-4 EN/IEC 60947-5-1 JIS C 4520 UL 508 EN/IEC 60947-5-5 EN/IEC 60947-1		
Product certifications	BV CSA UL listed DNV RINA LROS (Lloyds register of shipping) 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		

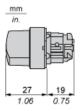
Contractual warranty

Warranty period	18 months	
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Product datasheet Dimensions Drawings

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Dimensions

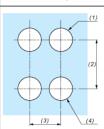


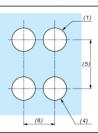


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Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed to Dimediac day of Faston Connectors

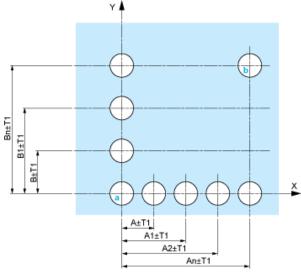




- Diameter on finished panel or support
- (2) (3) 40 mm min. / 1.57 in. min.
- 30 mm min. / 1.18 in. min.
- Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm $_0$ $^{+0.4}$ / 0.88 in. $_0$ $^{+0.016}$) (4)
- 45 mm min. / 1.78 in. min.
- (6) 32 mm min. / 1.26 in. min.

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

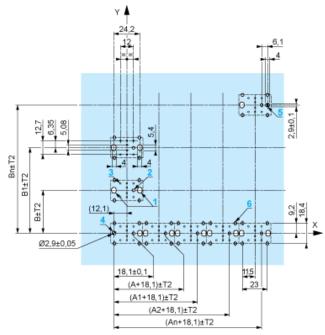
Panel Cut-outs (Viewed from Installer's Side)



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

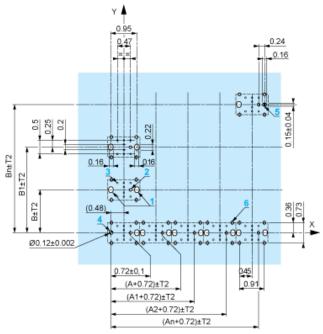
Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

Dimensions in mm



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

Dimensions in in.



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

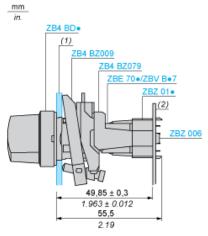
General Tolerances of the Panel and Printed Circuit Board

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).
- 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

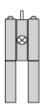
Mounting of Adapter (Socket) ZBZ 01•

- 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•.

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Electrical Composition Corresponding to Code M3



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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



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Legend

Single contact



Double contact



Light block



Possible location



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Sequence of Contacts Fitted to 3-position Selector Switch Body

Position 315°



Push	Position	Тор		8	
Bottom		Δ			
Location		Left	Right		
State		1	0		
Contacts	N/O		closed	open	
N/C		open	closed		•

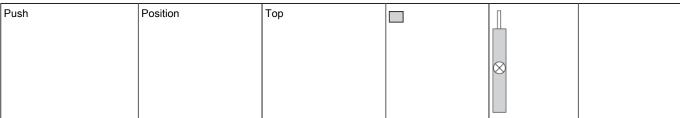
Position 0°



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

Position 45°





Bottom	Δ			
Location		Left	Right	
State		0	1	
Contacts	N/O		open	closed
N/C		closed	open	