

ZB4BK1233

green illuminated selector switch head Ø22 2-
position stay put



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	Stay put
Operator profile	Green standard handle
Operator position information	2 positions 90°

Complementary

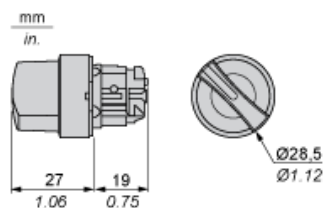
CAD overall width	29 mm
CAD overall height	29 mm
CAD overall depth	43 mm
Product weight	0.036 kg
Resistance to high pressure washer	7000000 Pa at 55 °C, distance: 0.1 m
Mechanical durability	1000000 cycles
Electrical composition code	M10 for <= 2 contacts using single blocks in front mounting with integral 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

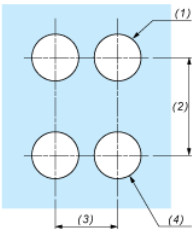
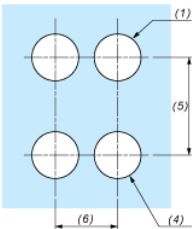
Protective treatment	TH
Ambient air temperature for storage	-40...70 °C
Ambient air temperature for operation	-40...70 °C

Class of protection against electric shock	Class I conforming to IEC 60536
Overvoltage category	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	UL 508 EN/IEC 60947-5-5 CSA C22.2 No 14 EN/IEC 60947-1 JIS C 4520 EN/IEC 60947-5-1 EN/IEC 60947-5-4
Product certifications	GL LROS (Lloyds register of shipping) UL listed RINA BV CSA DNV
Vibration resistance	5 gn (f = 2...500 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

Dimensions

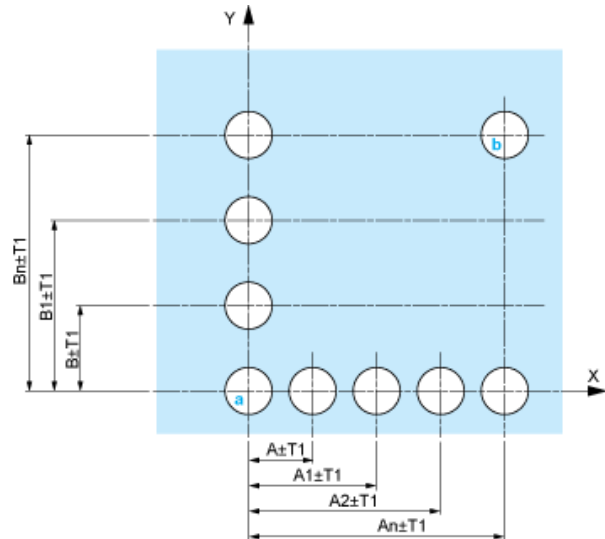


Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board	Connection by Faston Connectors
	
<div><div>(1)</div><div>Diameter on finished panel or support</div><div>(2)</div><div>40 mm min. / 1.57 in. min.</div><div>(3)</div><div>30 mm min. / 1.18 in. min.</div><div>(4)</div><div>Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm ^{+0.4} / 0.88 in. ^{+0.016})</div><div>(5)</div><div>45 mm min. / 1.78 in. min.</div><div>(6)</div><div>32 mm min. / 1.26 in. min.</div></div>	

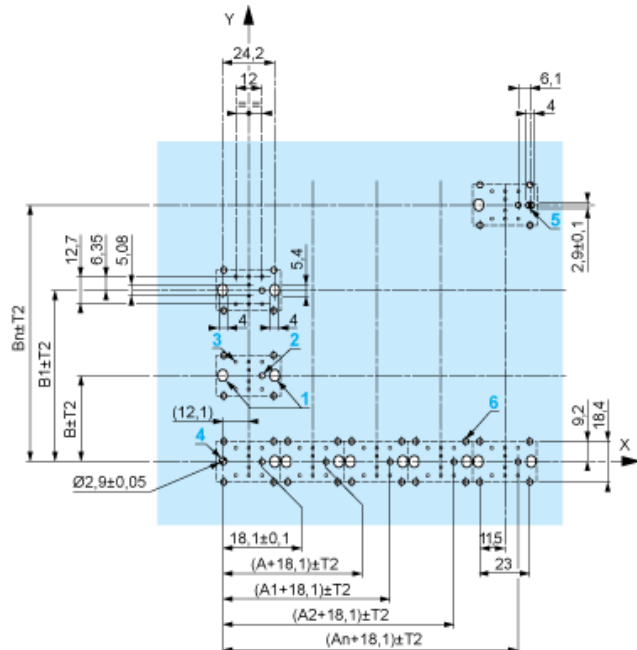
Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

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



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

Dimensions in mm



Technical drawing of a 10x10 hole grid on a rectangular plate. The plate has a width of 100.00 ± 0.002 and a height of 100.00 ± 0.002 . The grid is centered, with a pitch of 10.00 ± 0.1 . The drawing includes dimensions for the grid pitch, hole diameter, and various offsets. A coordinate system (X, Y) is shown at the top right. A detail view of a corner is shown at the bottom right, indicating a 0.24 offset and a 0.16 hole diameter. The drawing is labeled 'Fig. 1' and 'Fig. 2'.

B: 1.57 in. min.

The cumulative tolerance must not exceed 0.3 mm / 0.012 in: T1 + T2 = 0.3 mm max.

- 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:
 - every 90 mm / 3.54 in. horizontally (X), and 120 mm / 4.72 in. vertically (Y).
 - with each selector switch head (ZB4 BD•, ZB4 BJ•, ZB4 BG•).

Technical drawing of a ZBZ 006 tool holder assembly. The drawing shows a cross-section of the tool holder with various components labeled. The dimensions are given in millimeters (mm) and inches (in.).

Dimensions:

- 49.85 ± 0.3
- 1.963 ± 0.012
- 55.5
- 2.19

Part numbers and labels:

- ZB4 BD•
- (1)
- ZB4 BZ009
- ZB4 BZ079
- ZBE 70•/ZBV B•7
- ZBZ 01•
- (2)
- ZBZ 006

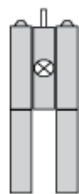
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Mounting of Adapter (Socket) ZBZ 01•

- 1 2 elongated holes for ZBZ 006 screw access
- 2 1 hole \varnothing 2.4 mm \pm 0.05 / 0.09 in. \pm 0.002 for centring adapter ZBZ 01•
- 3 8 \times \varnothing 1.2 mm / 0.05 in. holes
- 4 1 hole \varnothing 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 \varnothing 2.4 mm / 0.09 in. for clipping in adapter ZBZ 01•

Dimensions An + 18.1 relate to the \varnothing 2.4 mm \pm 0.05 / 0.09 in. \pm 0.002 holes for centring adapter ZBZ 01•.

Electrical Composition Corresponding to Code M3



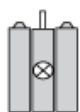
Electrical Composition Corresponding to Code M4



Electrical Composition Corresponding to Codes M6 and P2



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



Legend

Single contact



Double contact



Light block



Possible location



Sequence of Contacts Fitted to 2-position Selector Switch Body

Position 315°



Push	Position	Top		
Bottom				
Location		Left	Right	
State		0	0	
Contacts	N/O	open	open	
N/C		closed	closed	

Position 45°



Push	Position	Top		
Bottom				
Location		Left	Right	
State		1	1	
Contacts	N/O	closed	closed	
N/C		open	open	