



Main

Range of product	Harmony XB4
Product or component type	Head for double-headed push-button
Device short name	ZB4
Bezel material	Chromium plated metal
Mounting diameter	22 mm
Sale per indivisible quantity	1
Shape of signaling unit head	Rectangular
Type of operator	Spring return
Operator profile	1 flush - 1 projecting push-buttons
Operators description	Green "I" - red "O"

Complementary

Product weight	0.056 kg
Resistance to high pressure washer	7000000 Pa at 55 °C,distance: 0.1 m
Colour of marking	Black marking when white caps White marking when green, red or black caps
Operator profile	Green flush, white I Red projecting, white O
Mechanical durability	1000000 cycles
Electrical composition code	C3 for <= 6 contacts using single blocks in front mounting C14 for <= 2 contacts using single blocks in front mounting C4 for <= 6 contacts using single and double blocks in front mounting
Main group	Double head
Group of product	Flush/Proj marked
Cap/Operator or lens colour	Green/Red
Marking	I/O
Colour of marking	White/White
Compatibility code	ZB4

Environment

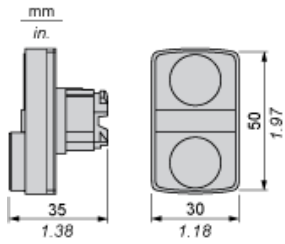
Ambient air temperature for storage	-40...70 °C
Ambient air temperature for operation	-40...70 °C
Class of protection against electric shock	Class I conforming to IEC 60536
IP degree of protection	IP66 conforming to IEC 60529 IP69 conforming to IEC 60529 IP69K
NEMA degree of protection	NEMA 4X NEMA 13
IK degree of protection	IK03 conforming to IEC 50102
Standards	CSA C22.2 No 14 EN/IEC 60947-5-1 JIS C 4520 UL 508 EN/IEC 60947-5-4 EN/IEC 60947-5-5 EN/IEC 60947-1
Product certifications	GL LROS (Lloyds register of shipping) RINA CSA DNV UL listed BV
Vibration resistance	(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

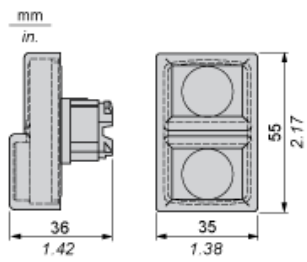
Warranty period	18 months
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Dimensions

Without Boot

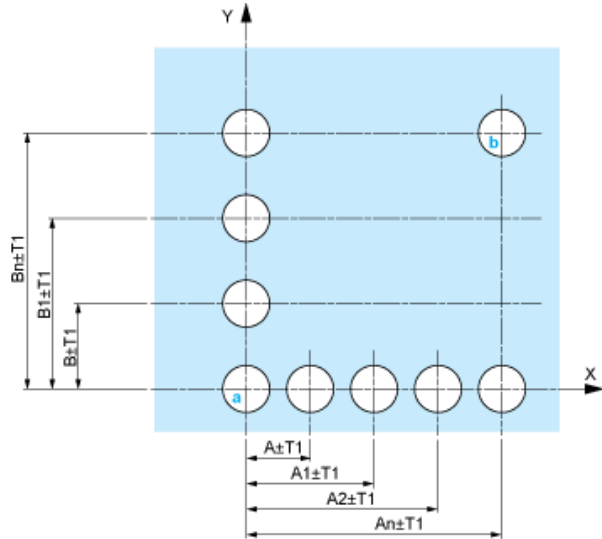


With Boot ZBA710



Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

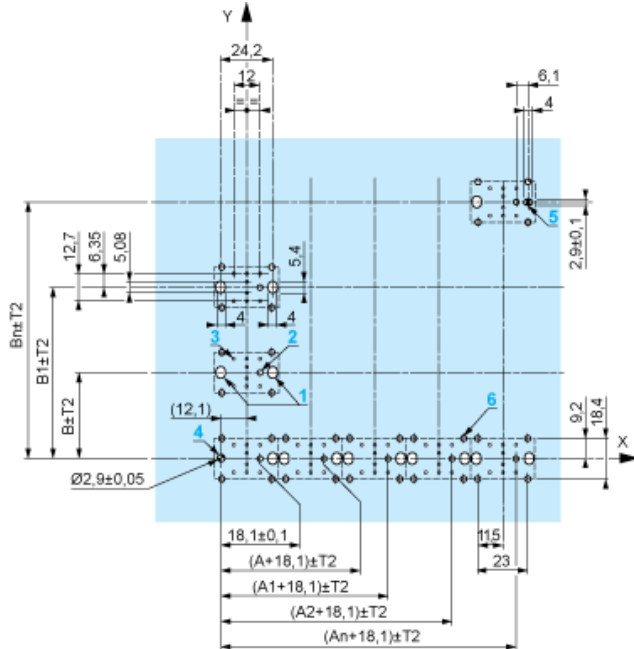
Panel Cut-outs (Viewed from Installer's Side)



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

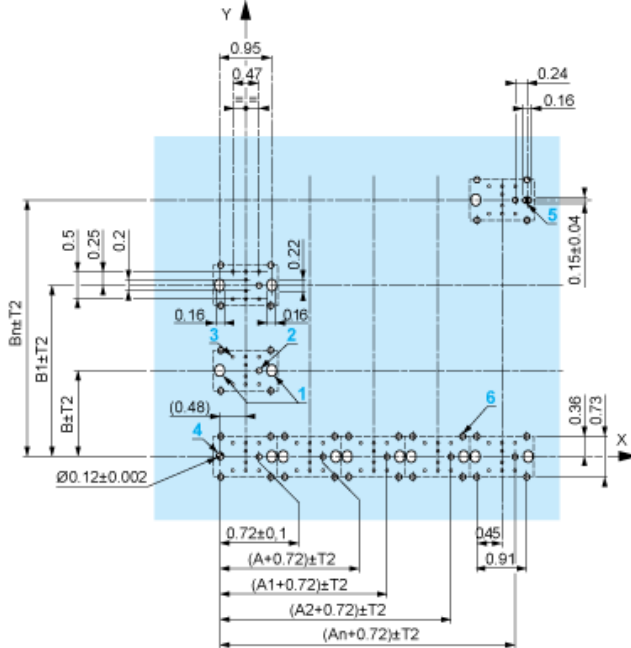
Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

Dimensions in mm



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

Dimensions in in.



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

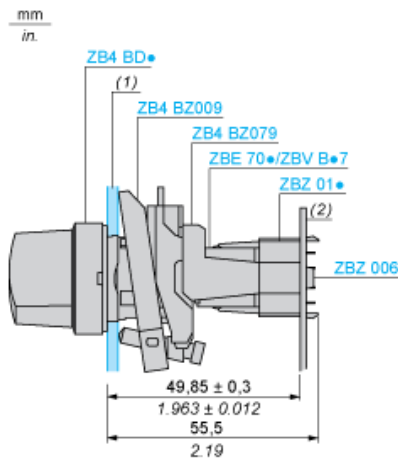
General Tolerances of the Panel and Printed Circuit Board

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 \pm 0.1 / 0.88 in. \pm 0.004
- Orientation of body/fixing collar ZB4 BZ009: $\pm 2^{\circ}30'$ (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*).

The fixing centers marked a and b are diagonally opposed and must align with those marked 4 and 5.



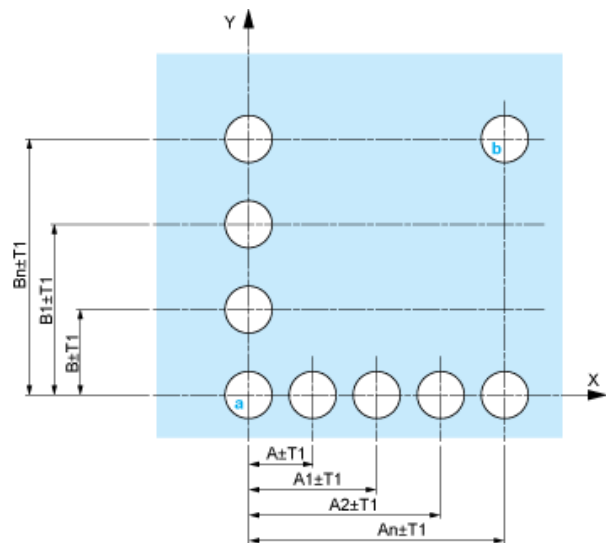
Mounting of Adapter (Socket) ZBZ 01•

- 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•.

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

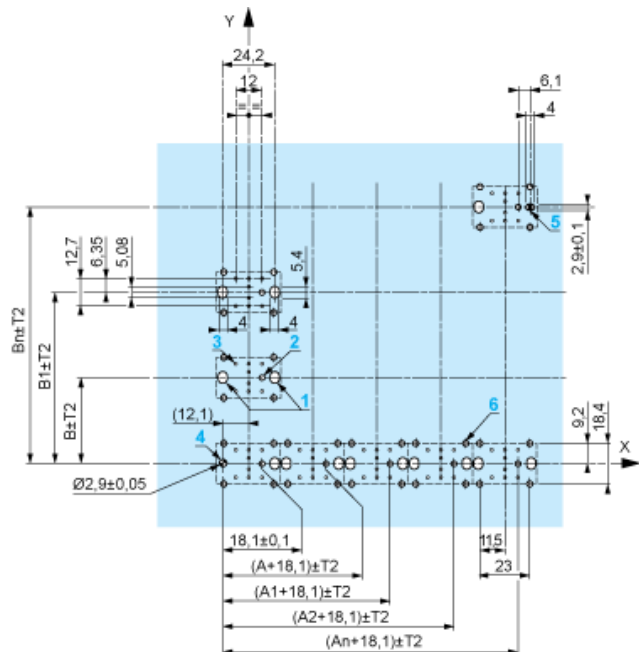
Panel Cut-outs (Viewed from Installer's Side)



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

Dimensions in mm



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- B: 40 mm min.

Dimensions in in.



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

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- (1) Panel
(2) Printed circuit board

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Legend

Single contact



Double contact



Light block



Possible location



Legend

Single contact



Double contact



Light block



Possible location



Legend

Single contact



Double contact



Light block



Possible location



Legend

Single contact



Double contact



Light block



Possible location

