



Hovedkarakteristikk

Produktspekter	Harmony XB4
Produkt eller komponent type	Hode for vendere
Kortnavn utstyr	ZB4
Innfatningsmateriale	Forkrommet metall
Montasjediameter	22 mm
Salg per udelelig kvantitet	1
Hode type	Standard
Formen på varslingsenhetens hode	Rund
Type arm/stempel	Fjærretur venstre til senter
Operatørprofil	Sort riflet knapp
Informasjon om knappens stilling	3 posisjoner +/- 45°

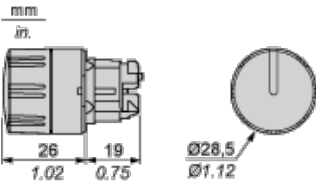
Alternativer

Bredde	29 mm
Høyde	29 mm
Dybde	44 mm
Vekt	0.04 kg
Resistens til høytrykksvask	7000000 Pa på 55 °C, avstand: 0.1 m
Mekanisk levetid	1000000 sykluser
Elektrisk sammensetningskode	C11 for <= 3 kontakter bruker Enkel blokker i frontmontering C3 for <= 6 kontakter bruker Enkel blokker i frontmontering C4 for <= 6 kontakter bruker enkel og dobbel blokker i frontmontering C7 for <= 4 kontakter bruker Enkel blokker i frontmontering C8 for <= 4 kontakter bruker enkel og dobbel blokker i frontmontering C5 for <= 5 kontakter bruker Enkel blokker i frontmontering C6 for <= 5 kontakter bruker enkel og dobbel blokker i frontmontering

Miljø

overflatebeskyttelse	TC
omgivelsestemperatur for lagring	-40...70 °C
omgivelsestemperatur drift	-40...70 °C
beskyttelsesgrad mot elektrisk støt	Klasse I i henhold til IEC 60536
IP-grad	IP69K IP69 conforming to IEC 60529
NEMA beskyttelsesgrad	NEMA 13 NEMA 4X
IK beskyttelsesklasse	IK06 i samsvar med 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
produktsertifikater	BV CSA DNV GL LROS (Lloyds register of shipping) RINA UL listet
Vibrasjonsmotstand	5 gn (f = 2...500 Hz) i henhold til IEC 60068-2-6
støtmotstand	30 gn (varighet = 18 ms) for halvsinuskurve akselerasjon i henhold til IEC 60068-2-

Dimensions

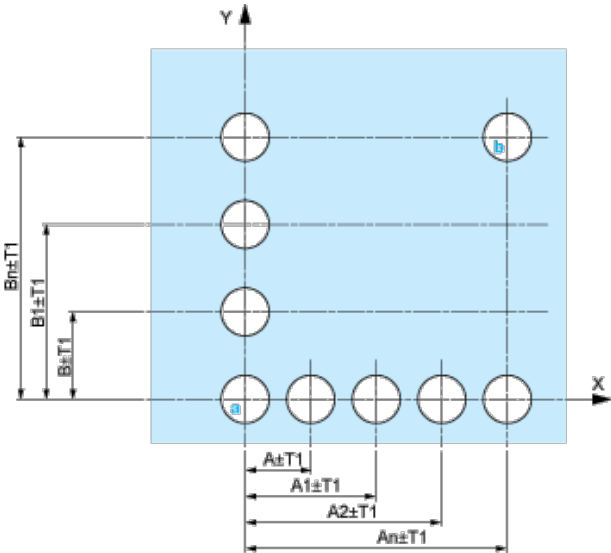


Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board	Connection by Faston Connectors
Diagram showing a 2x2 grid of circular holes on a light blue rectangular panel. Dimensions are labeled: (1) for hole diameter, (2) for vertical spacing between rows, (3) for horizontal spacing between columns, and (4) for hole diameter.	Diagram showing a 2x2 grid of circular holes on a light blue rectangular panel. Dimensions are labeled: (1) for hole diameter, (5) for vertical spacing between rows, (6) for horizontal spacing between columns, and (4) for hole diameter.
(1) Diameter on finished panel or support (2) 40 mm min. / 1.57 in. min. (3) 30 mm min. / 1.18 in. min. (4) Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm ^{+0.4} / 0.88 in. ₀ ^{+0.016}) (5) 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

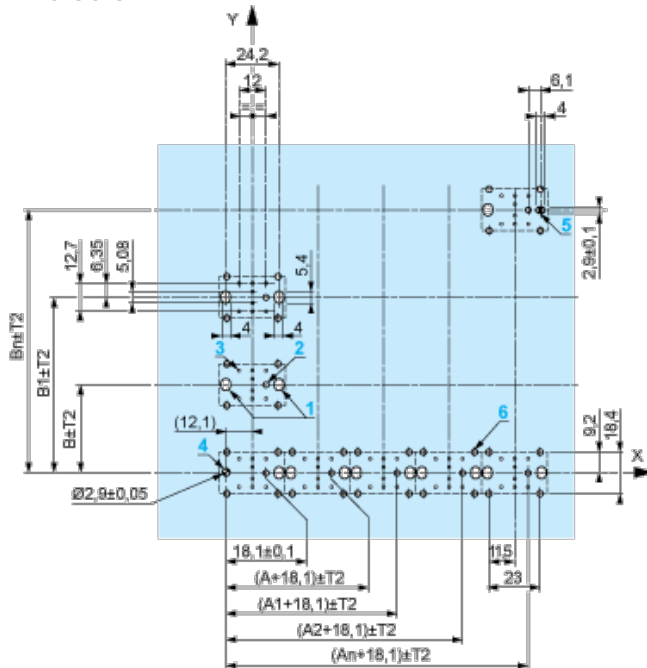
Panel Cut-outs (Viewed from Installer's Side)



- 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)

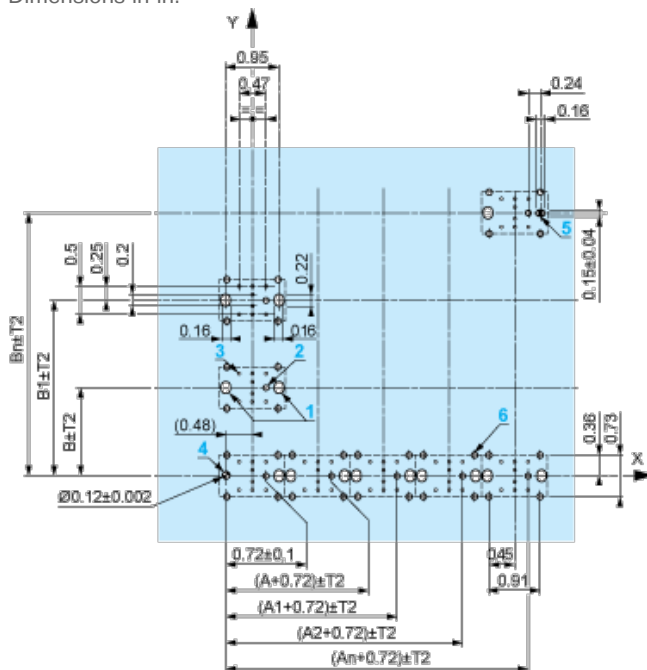
Dimensions in mm



A: 30 mm min.

B: 40 mm min.

Dimensions in in.



A: 1.18 in. min.

B: 1.57 in. min.

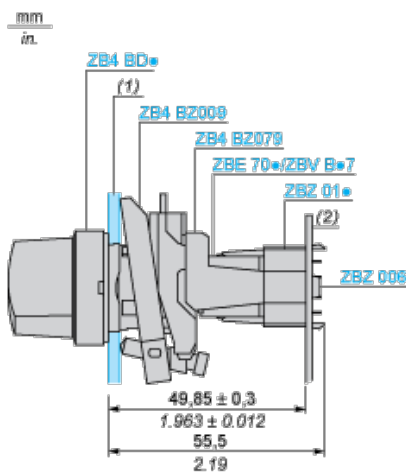
General Tolerances of the Panel and Printed Circuit Board

The cumulative tolerance must not exceed 0.3 mm / 0.012 in: $T1 + T2 = 0.3 \text{ mm max.}$

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.



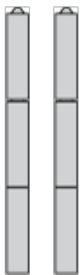
- (1) Panel
(2) Printed circuit board

Mounting of Adapter (Socket) ZBZ 01•

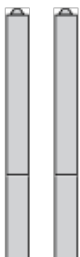
- | 1 2 elongated holes for ZBZ 006 screw access
- | 2 1 hole $\varnothing 2.4 \text{ mm} \pm 0.05 / 0.09 \text{ in.} \pm 0.002$ for centring adapter ZBZ 01•
- | 3 8 × $\varnothing 1.2 \text{ mm} / 0.05 \text{ in.}$ holes
- | 4 1 hole $\varnothing 2.9 \text{ mm} \pm 0.05 / 0.11 \text{ in.} \pm 0.002$, 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 $\varnothing 2.4 \text{ mm} / 0.09 \text{ in.}$ for clipping in adapter ZBZ 01•

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

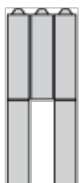
Electrical Composition Corresponding to Code C3



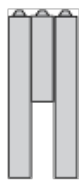
Electrical Composition Corresponding to Code C4



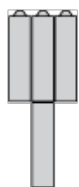
Electrical Composition Corresponding to Code C5



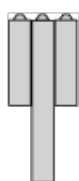
Electrical Composition Corresponding to Code C6



Electrical Composition Corresponding to Code C7



Electrical Composition Corresponding to Code C8



Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1



Legend

Single contact



Double contact



Light block



Possible location



Sequence of Contacts Fitted to 3-position Selector Switch Body

Position 315°



Push	Position	Top			
		Bottom			
	Location		Left	Centre	Right
	State		1	1	0
Contacts	N/O		closed	closed	open
	N/C		open	open	closed

Position 0°



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

Position 45°



Push	Position	Top			
		Bottom			
	Location		Left	Centre	Right
	State		0	1	1
Contacts	N/O		open	closed	closed
	N/C		closed	open	open