Product data sheet

Specifications

Green Premium™

Harmony XB4, Push button head, metal, red, flush, Ø22, push-push, unmarked

ZB4BH04

Product availability : Stock - Normally stocked in distribution facility

Main

Range of Product	Harmony XB4
Product or Component Type	Head for non-illuminated push-button
Device short name	ZB4
Bezel material	Chromium plated metal
Mounting diameter	0.87 in (22 mm)
Sale per indivisible quantity	1
Head type	Standard
Shape of signaling unit head	Round
Type of operator	push-push
Operator profile	Red flush, unmarked

Complementary

CAD overall width	1.14 in (29 mm)
CAD overall height	1.14 in (29 mm)
CAD overall depth	1.10 in (28 mm)
Mechanical durability	2000000 cycles
Electrical composition code	C11 3 single front mounting C15 1 single front mounting C9 3 single front mounting
Device presentation	Basic element

Environment

Protective treatment	TH
Ambient Air Temperature for Storage	-40…158 °F (-40…70 °C)
Ambient Air Temperature for Operation	-40…158 °F (-40…70 °C)
Overvoltage category	Class I IEC 60536
IP degree of protection	IP66 IEC 60529 IP67 IP69 IP69K

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NEMA degree of protection	NEMA 13
	NEMA 4X

IK degree of protection	IK06 IEC 50102

Standards	UL 508
	EN/IEC 60947-5-1
	EN/IEC 60947-5-5
	CSA C22.2 No 14
	EN/IEC 60947-5-4
	EN/IEC 60947-1
	JIS C8201-5-1
	JIS C8201-1

Product Certifications	LROS (Lloyds register of shipping)
	CSA
	DNV
	UL Listed
	GL
	BV

Vibration resistance	5 gn 2…500 Hz)IEC 60068-2-6

Shock resistance	30 gn 18 ms) half sine wave acceleration IEC 60068-2-27
	50 gn 11 ms) half sine wave acceleration IEC 60068-2-27

Ordering and shipping details

Category	22468-PUSHBUTTONS,22MM(METAL) NEW

Discount Schedule	CS2

GTIN	3389110122657

Nbr. of units in pkg.	1

Package weight(Lbs)	0.99 oz (28.0 g)

Returnability	Yes

Country of origin	FR

Packing Units

Unit Type of Package 1	PCE

Package 1 Height	1.77 in (4.5 cm)

Package 1 width	1.34 in (3.4 cm)

Package 1 Length	2.13 in (5.4 cm)

Unit Type of Package 2	S03

Number of Units in Package 2	300

Package 2 Weight	20.44 lb(US) (9.271 kg)

Package 2 Height	11.81 in (30 cm)

Package 2 width	11.81 in (30 cm)

Package 2 Length	15.75 in (40 cm)

Unit Type of Package 3	BB1

Number of Units in Package 3	5

Package 3 Weight	5.15 oz (146.0 g)

Package 3 Height	1.77 in (4.5 cm)

Package 3 width	1.34 in (3.4 cm)

Package 3 Length	10.43 in (26.5 cm)

Offer Sustainability

Sustainable offer status	Green Premium product

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California proposition 65	WARNING: This product can expose you to chemicals including: Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to P65Warnings website
REACh Regulation	REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
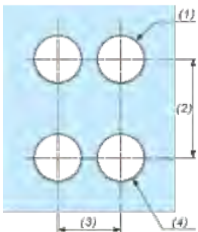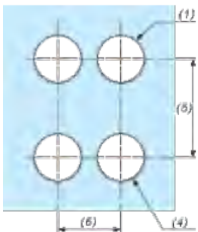
Contractual warranty

Warranty	18 months

REACh Declaration

REACh free of SVHC   Yes

EU RoHS Directive   Pro-active compliance (Product out of EU RoHS legal scope)
EU RoHS Declaration

Toxic heavy metal free   Yes

Mercury free   Yes

Dimensions

mm
in.

28
1.1

Ø28.5
Ø1.12
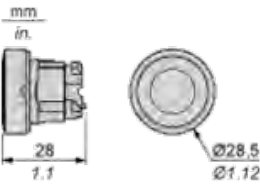
**Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)**

Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board	Connection by Faston Connectors

(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 $_0^{+0.4}$ / 0.88 in. $_0^{+0.016}$)

(5) 45 mm min. / 1.78 in. min.

(6) 32 mm min. / 1.26 in. min.

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Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

Panel Cut-outs (Viewed from Installer's Side)
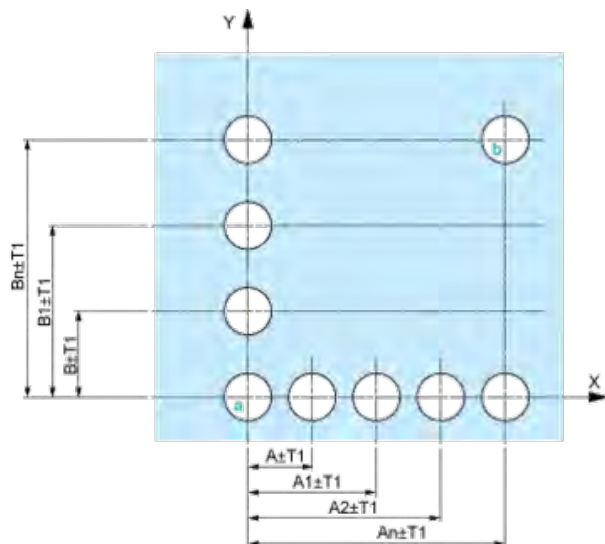
A: 30 mm min. / 1.18 in. min.

B: 40 mm min. / 1.57 in. min.

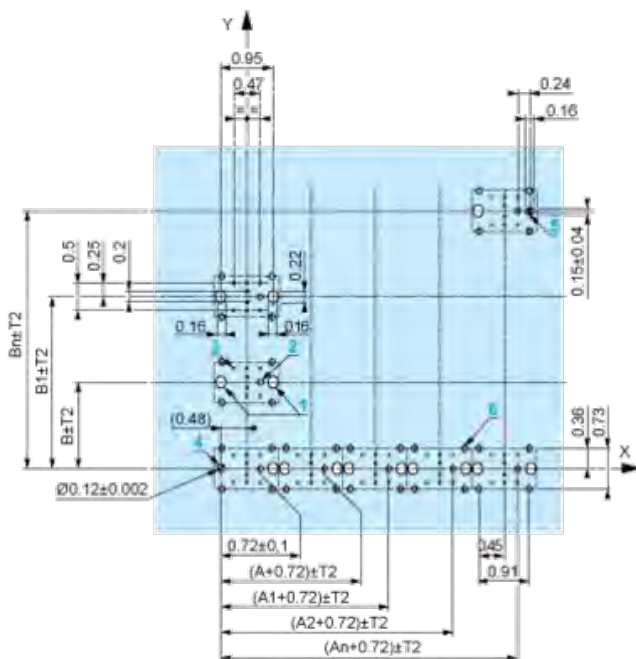### Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

Dimensions in mm
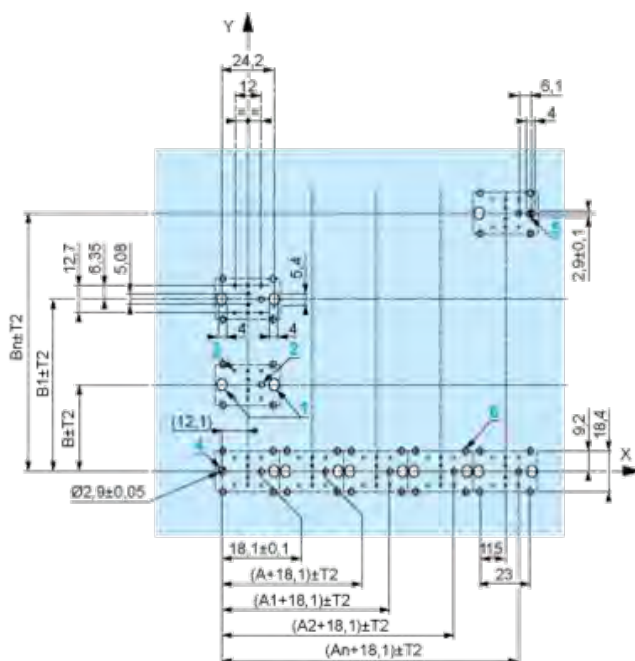
A: 30 mm min.

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:
  - 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**.
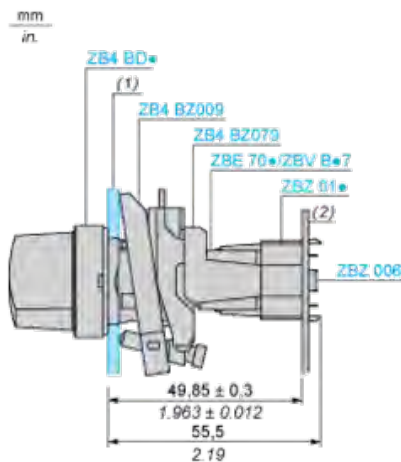
(1) Panel

(2) Printed circuit board

Mounting of Adapter (Socket) ZBZ 01•

- **1** 2 elongated holes for ZBZ 006 screw access
- **2** 1 hole Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 for centring adapter ZBZ 01•
- **3** 8 × Ø 1.2 mm / 0.05 in. holes
- **4** 1 hole Ø 2.9 mm ± 0.05 / 0.11 in. ± 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**)
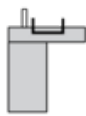- **6** 4 holes Ø 2.4 mm / 0.09 in. for clipping in adapter ZBZ 01•

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

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

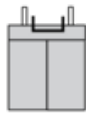## Electrical Composition Corresponding to Code C15

1 N/O

1 N/C

1 N/O + N/C or 1 N/O + N/O or 1 N/C + N/C

Legend

Single contact

Double contact

Light block

Possible location

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