Specification





Head for non-illuminated push button, Harmony XB4, metal, green projecting, 22mm, pushpush, unmarked

ZB4BH3

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	0.9 in (22.5 mm)
Sale per indivisible quantity	1
Head type	Standard
Shape of signaling unit head	Round
Type of operator	push-push
Operator profile	Green projecting, unmarked
Cap/operator or lens colour	Green

Complementary

CAD overall width	1.1 in (29 mm)	
CAD overall height	neight 1.1 in (29 mm)	
CAD overall depth	1.3 in (33 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	тн	
Ambient air temperature for storage	-40.0000000000158.0000000000 °F (-4070 °C)	
Ambient air temperature for operation	-40.0000000000158.00000000000 °F (-4070 °C)	
Overvoltage category	Class I IEC 60536	
IP degree of protection	IP66 IEC 60529	
	IP67	
	IP69	
	IP69K	
NEMA degree of protection	NEMA 13	
	NEMA 4X	
IK degree of protection	IK05 conforming to IEC 50102	

Standards	UL 508 IEC 60947-5-5 IEC 60947-5-1 IEC 60947-1 JIS C8201-5-1 CSA C22.2 No 14 IEC 60947-5-4 JIS C8201-1	
Product certifications	CSA DNV LROS (Lloyds register of shipping) GL BV UL listed	
Vibration resistance	5 gn 2500 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	

Packing Units

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Unit Type of Package 1	t Type of Package 1 PCE	
Number of Units in Package 1	1	
Package 1 Height	1.8 in (4.5 cm)	
Package 1 Width	1.3 in (3.4 cm)	
Package 1 Length	2.1 in (5.4 cm)	
Package 1 Weight	1.06 oz (30 g)	
Unit Type of Package 2	BB1	
Number of Units in Package 2	5	
Package 2 Height	1.8 in (4.5 cm)	
Package 2 Width	1.3 in (3.4 cm)	
Package 2 Length	10.4 in (26.5 cm)	
Package 2 Weight	5.3 oz (151 g)	
Unit Type of Package 3	S03	
Number of Units in Package 3	300	
Package 3 Height	11.8 in (30 cm)	
Package 3 Width	11.8 in (30 cm)	
Package 3 Length	15.7 in (40 cm)	
Package 3 Weight	21.037 lb(US) (9.542 kg)	

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance

⊘	Reach Free Of Svhc	
Ø	Toxic Heavy Metal Free	
⊘	Mercury Free	
⊘	Rohs Exemption Information	Yes

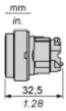
Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

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Dimensions Drawings

Dimensions





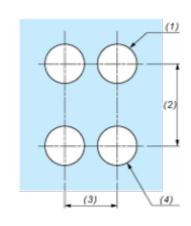
ZB4BH3

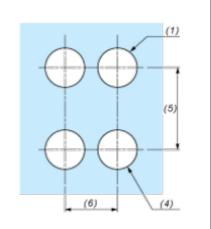
Mounting and Clearance

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

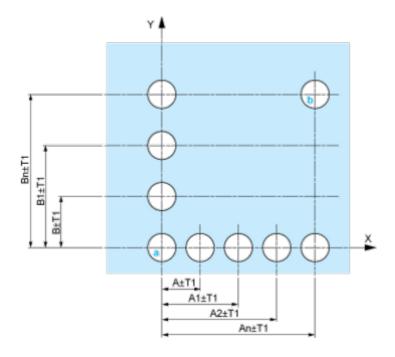




- (1) Diameter on finished panel or support
- (2) 40 mm min. / 1.57 in. min.
- (3) 30 mm min. / 1.18 in. min.
- (4) Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm $_0^{+0.4}$ / 0.88 in. $_0^{+0.016}$)
- (5) 45 mm min. / 1.78 in. min.
- (6) 32 mm min. / 1.26 in. min.

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

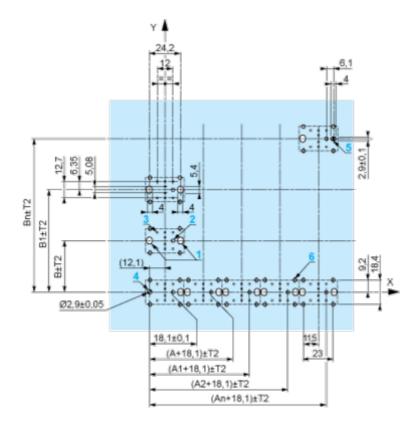
Panel Cut-outs (Viewed from Installer's Side)



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

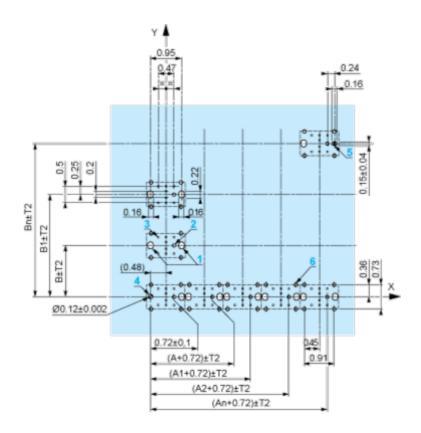
Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

Dimensions in mm



A: 30 mm min. B: 40 mm min. Dimensions in in.

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

General Tolerances of the Panel and Printed Circuit Board

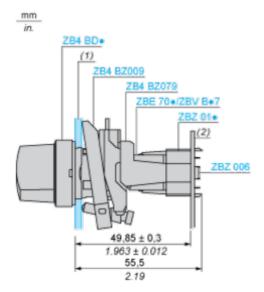
The cumulative tolerance must not exceed 0.3 mm / 0.012 in: T1 + T2 = 0.3 mm max.

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:
 - $_{\circ}\;$ 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**.

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- (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
- $_{ullet}$ 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 \pm 0.05 / 0.09 in. \pm 0.002 holes for centring adapter ZBZ 01•.

ZB4BH3

Technical Description

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



ZB4BH3

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

