

Harmony XB4, Mushroom push button head Ø40, metal, black, Ø22, latching push-pull

ZB4BT2

Product availability: Stock - Normally stocked in distribution facility

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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	latching
Reset	Push-pull
Operator profile	Black mushroom Ø 40 mm, unmarked

Complementary

Device presentation	Basic element
	C10 4 single and double front mounting
,	C8 4 single and double front mounting
	C7 4 single front mounting
	C15 1 single front mounting
Electrical composition code	C11 3 single front mounting
Mechanical durability	500000 cycles
Net Weight	0.17 lb(US) (0.077 kg)
CAD overall depth	2.20 in (56 mm)
CAD overall height	1.57 in (40 mm)
CAD overall width	1.57 in (40 mm)

Environment

Protective treatment	TH
Ambient Air Temperature for Storage	-40158 °F (-4070 °C)
Ambient Air Temperature for Operation	-40158 °F (-4070 °C)

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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	IK06 IEC 50102	
Standards	EN/IEC 60947-5-1 CSA C22.2 No 14 EN/IEC 60947-1 UL 508 EN/IEC 60947-5-5 EN/IEC 60947-5-4 JIS C8201-5-1 JIS C8201-1	
Product Certifications	GL LROS (Lloyds register of shipping) UL Listed DNV CSA BV	
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	
Ordering and shipping of	letails	
Category	22468-PUSHBUTTONS,22MM(METAL) NEW	
Discount Schedule	CS2	
GTIN	3389110888638	
Nbr. of units in pkg.	1	
Package weight(Lbs)	2.68 oz (76.0 g)	
Returnability	Yes	
Country of origin	CZ	
Packing Units		
Unit Type of Package 1	PCE	
Package 1 Height	3.46 in (8.8 cm)	
Package 1 width	2.09 in (5.3 cm)	
Package 1 Length	1.77 in (4.5 cm)	
Unit Type of Package 2	S02	
Number of Units in Package 2	42	
Package 2 Weight	7.66 lb(US) (3.473 kg)	
Package 2 Height	5.91 in (15 cm)	
Package 2 width	11.81 in (30 cm)	
Package 2 Length	15.75 in (40 cm)	
Offer Sustainability		
Sustainable offer status	Green Premium product	
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	
DEACH from of SVIIIO	V	

Yes

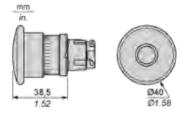
REACh free of SVHC

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	

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Dimensions Drawings

Dimensions



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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

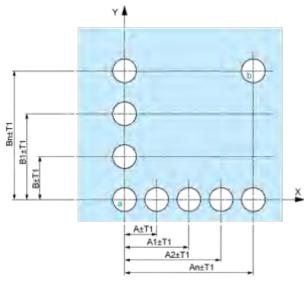
Connection by Faston Connectors

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)

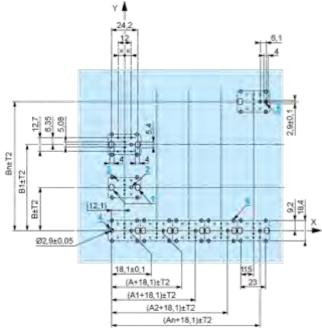


A: 30 mm min. / 1.18 in. min.

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

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

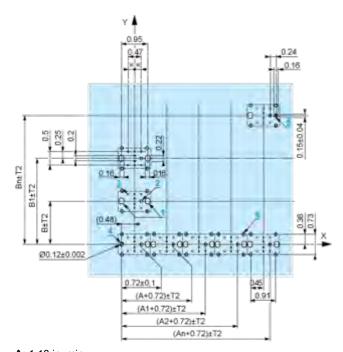
Dimensions in mm



A: 30 mm min.

B: 40 mm min.

Dimensions in in.



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

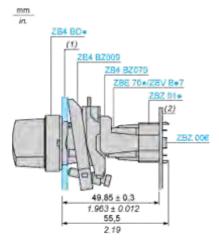
General Tolerances of the Panel and Printed Circuit Board

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:
 - o 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.



- (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)
- $\bullet~$ 6 4 holes Ø 2.4 mm / 0.09 in. for clipping in adapter ZBZ 01 $\bullet~$

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•.

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Technical Description

Electrical Composition Corresponding to Code C7



Product data sheet ZB4BT2

Technical Description

Electrical Compositions Corresponding to Code C8



ZB4BT2

Technical Description

Electrical Compositions Corresponding to Code C10



Product data sheet ZB4BT2

Technical Description

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

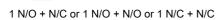


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Technical Description

Electrical Composition Corresponding to Code C15

1 N/O





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Technical Description

Single contact



Double contact



Light block



Possible location

