Product data sheet Characteristics

ZB4BA3

Harmony XB4, Push button head, metal, flush, green, 22mm, spring return, unmarked





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	22 Mm	
Sale per indivisible quantity	1	
Head type	Standard	
Shape of signaling unit head	Round	
Type of operator	Spring return	
Operator profile	Green flush, unmarked	

Complementary

Device presentation	Basic element
	C15 for <1 contacts using single blocks in front mounting
	C11 for <3 contacts using single blocks in front mounting
•	C2 for <9 contacts using single and double blocks in front mounting
Electrical composition code	C1 for <9 contacts using single blocks in front mounting
Mechanical durability	10000000 Cycles
CAD overall depth	28 Mm
CAD overall height	29 Mm
CAD averall hairbt	20 Mars
CAD overall width	29 Mm

Environment

Protective treatment	TH	
Ambient air temperature for storage	-4070 °C	
Ambient air temperature for operation	-4070 °C	
Overvoltage category	Class I conforming to IEC 60536	
IP degree of protection	IP66 conforming to IEC 60529 IP67 IP69 IP69K	
NEMA degree of protection	NEMA 13 NEMA 4X	
IK degree of protection	IK06 conforming to IEC 50102	

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

Packing Units

3 - 3	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.800 Cm
Package 1 Width	3.400 Cm
Package 1 Length	5.400 Cm
Package 1 Weight	28.000 G
Unit Type of Package 2	BB1
Number of Units in Package 2	5
Package 2 Height	4.800 Cm
Package 2 Width	3.400 Cm
Package 2 Length	26.500 Cm
Package 2 Weight	140.000 G
Unit Type of Package 3	S03
Number of Units in Package 3	300
Package 3 Height	30.000 Cm
Package 3 Width	30.000 Cm
Package 3 Length	40.000 Cm
Package 3 Weight	8.939 Kg

Offer Sustainability

Ch Declaration	
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Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration	
Ğ China RoHS Declaration	
₫Yes	
Product Environmental Profile	

Contractual warranty

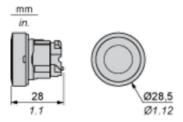
Warranty	18 months



Product data sheet Dimensions Drawings

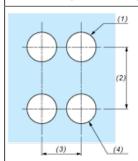
ZB4BA3

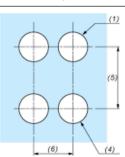
Dimensions



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 Prioteenheattonit Byo Fastston Connectors

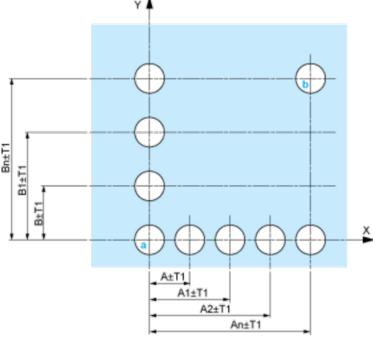




- (1) Diameter on finished panel or support
- (2) 40 mm min. / 1.57 in. min.
- (3) 30 mm min. / 1.18 in. min.
- (4) \emptyset 22.5 mm / 0.89 in. recommended (\emptyset 22.3 mm $_0^{+0.4}$ / 0.88 in. $_0^{+0.016}$)
- (5) 45 mm min. / 1.78 in. min.
- (6) 32 mm min. / 1.26 in. min.

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

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

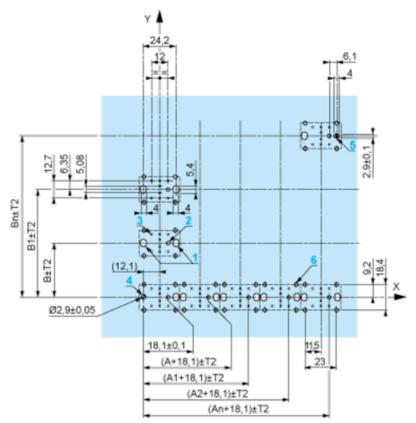


A: 30 mm min. / 1.18 in. min.

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

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

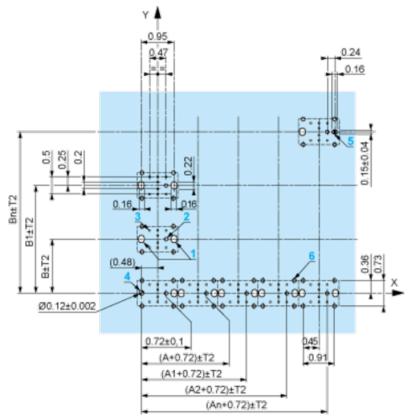
Dimensions in mm



A: 30 mm min.

B: 40 mm min.

Dimensions in in.



A: 1.18 in. min.

B: 1.57 in. min.

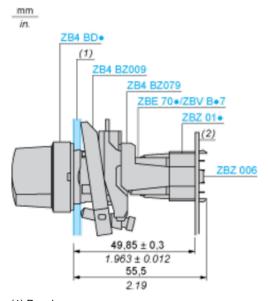
General Tolerances of the Panel and Printed Circuit Board

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)
- 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•.

Product data sheet Technical Description

ZB4BA3

Electrical Composition Corresponding to Code C1



Electrical Composition Corresponding to Code C2



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



Product Life Status: Commercialised