ZB4BA245

Head for illuminated push button, Harmony XB4, metal, black flush, 22mm, spring return, white marked T





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	22.5 mm
Sale per indivisible quantity	1
Head type	Standard
Shape of signaling unit head	Round
Type of operator	Spring return
Operator profile	Black flush, T (white)
Cap/operator or lens colour	Black

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 overall width	29 mm	

Environment

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 IEC 60947-5-5 UL 508 CSA C22.2 No 14 IEC 60947-5-1 IEC 60947-1 JIS C8201-1
Product certifications	GL[RETURN]LROS (Lloyds register of shipping) [RETURN]CSA[RETURN]BV[RETURN]DNV[RETURN]UL listed

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not interested for a set of or determining suitability or intelability of these products for specific user applications. It is the documentation is not integrator to perform the appropriate and complete risk analysis, evaluating of the products with respect to the relevant specific application or use thereof. Neither Schmeider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

ibration 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		
Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	4.5 cm	
Package 1 Width	3.4 cm	
Package 1 Length	5.4 cm	
Package 1 Weight	29.0 g	
Unit Type of Package 2	S01	
Number of Units in Package 2	50	
Package 2 Height	15 cm	
Package 2 Width	15 cm	
Package 2 Length	40 cm	
Package 2 Weight	1.675 kg	
Offer Sustainability Sustainable offer status	Green Premium product	
REACh Regulation	· · · · · · · · · · · · · · · · · · ·	
REACh free of SVHC		
EU RoHS Directive	Yes	
EO RONS DIJECTIVE	Pro-active compliance (Product out of EU RoHS legal scope)	
Toxic heavy metal free	Yes	
Mercury free	Yes	
China RoHS Regulation	☑ China RoHS Declaration	
RoHS exemption information	Ğ Yes	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End Of Life Information	
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 www.P65Warnings.ca.go	
California proposition 65 Contractual warranty	phthalate (DIDP), which is known to the State of California to cause birth defect	

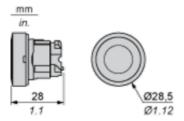
18 months

Warranty

Product data sheet Dimensions Drawings

ZB4BA245

Dimensions



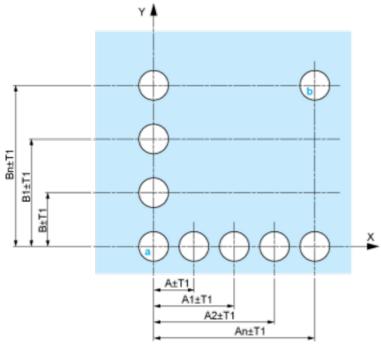
Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

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

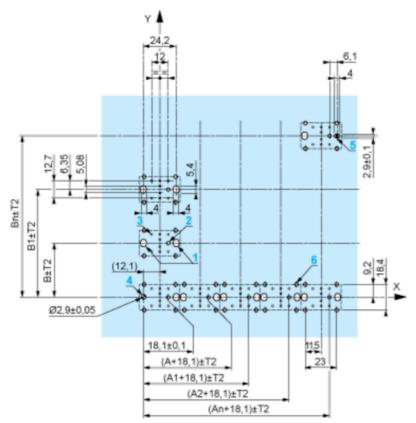


A: 30 mm min. / 1.18 in. min.

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

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

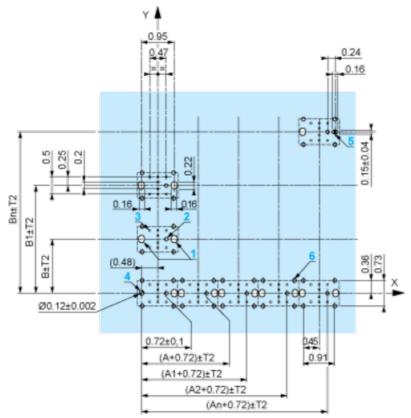
Dimensions in mm



A: 30 mm min.

B: 40 mm min.

Dimensions in in.



A: 1.18 in. min.

B: 1.57 in. min.

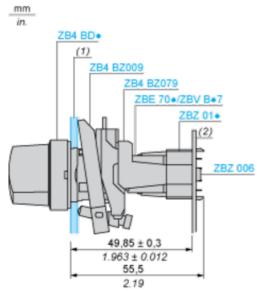
General Tolerances of the Panel and Printed Circuit Board

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•
- 38 × 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

ZB4BA245

Electrical Composition Corresponding to Code C2 Electrical Composition Corresponding to Code C2 Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1	
Electrical Composition Corresponding to Code C2 Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1 Electrical Composition Corresponding to Code C15	Electrical Composition Corresponding to Code C1
Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1 Electrical Composition Corresponding to Code C15	
Electrical Composition Corresponding to Code C15	Electrical Composition Corresponding to Code C2
Electrical Composition Corresponding to Code C15	
	Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1
1 N/O	Electrical Composition Corresponding to Code C15
	1 N/O
1 N/C	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		