Product datasheet Characteristics

ZB4BA71207



Main

Range of product	Harmony XB4	
Product or component type	Head for double-headed push-button	
Device short name	ZB4	
Bezel material	Black metal	
Mounting diameter	0.87 in (22 mm)	
Head type	Standard	
Sale per indivisible quantity	antity 1	
Shape of signaling unit head	Rectangular	
Type of operator	Spring return	
Operator profile	2 flush push-buttons	
Operators description	White unmarked - black unmarked	

Complementary

Product weight	0.12 lb(US) (0.056 kg)		
Resistance to high pressure washer	1015.26 psi (7000000 Pa) at 131 °F (55 °C),distance: 0.1 m		
Colour of marking	Black marking when white caps White marking when green, red or black caps	lack caps	
Operator profile	Black flush unmarked White flush unmarked		
Mechanical durability	1000000 cycles		
lectrical composition code C4 6 contacts using single and double blocks in front mounting C3 6 contacts using single blocks in front mounting C14 2 contacts using single blocks in front mounting			

Environment

ambient air temperature for storage	-40158 °F (-4070 °C)	
ambient air temperature for operation	-40158 °F (-4070 °C)	
electrical shock protection class	Class I conforming to IEC 60536	
IP degree of protection	IP69K conforming to IEC 60529 IP69 conforming to IEC 60529	
NEMA degree of protection	NEMA 13 NEMA 4X	
IK degree of protection	IK06 conforming to IEC 50102	
standards	EN/IEC 60947-1 EN/IEC 60947-5-1 EN/IEC 60947-5-4 EN/IEC 60947-5-5 JIS C 4520 UL 508 CSA C22.2 No 14	
product certifications	BV CSA DNV GL LROS (Lloyds register of shipping) RINA UL listed	
shock resistance	30 gn (duration = 18 ms) half sine wave acceleration conforming to IEC 60068-2-27 50 gn (duration = 11 ms) half sine wave acceleration conforming to IEC 60068-2-27	

Offer Sustainability

WARNING: This product can expose you to chemicals WARNING: This product can expose you to chemicals including: including:



Nickel compounds, which is known to the State of California to cause cancer, and

Di-isodecyl phthalate (DIDP), which is known to the StateDi-isodecyl phthalate (DIDP), which is known to the State of California to cause birth of California to cause birth defects or other reproductive defects or other reproductive harm. harm.

For more information go to www.p65warnings.ca.gov For more information go to www.p65warnings.ca.gov

Contractual warranty

Warranty period	18 months

Dimensions

Without Boot



Without Boot ZBA708



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

	nnection by Screw Clamp Terminals or Plug-in nnectors 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)



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
- 1 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:
 - i every 90 mm / 3.54 in. horizontally (X), and 120 mm / 4.72 in. vertically (Y).
 - i 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
- 1 1 hole Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 for centring adapter ZBZ 01•
- 1 3 8 × Ø 1.2 mm / 0.05 in. holes
- 1 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)
- 1 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 Code C3



Electrical Composition Corresponding to Code C4



Electrical Composition Corresponding to Codes C14, SF2 and SR2



Legend

Single contact



Double contact



Light block



Possible location





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