



Harmony, 22mm Push Button, selector switch operating head, 2 position, maintained, black, unmarked

ZB4BD2

Product availability: Stock - Normally stocked in distribution facility

viain

Range of Product	Harmony XB4
Product or Component Type	Head for selector switch
Device short name	ZB4
Bezel material	Chromium plated metal
Mounting diameter	0.87 in (22 mm)
Head type	Standard
Sale per indivisible quantity	1
Shape of signaling unit head	Round
Type of operator	stay put
Operator profile	Black standard handle
Operator position information	2 positions 90°

Complementary

CAD overall width	1.14 in (29 mm)				
CAD overall height	1.14 in (29 mm)				
CAD overall depth	1.73 in (44 mm)				
Net Weight	0.09 lb(US) (0.04 kg)				
Resistance to high pressure washer	1015.26 psi (7000000 Pa) 131 °F (55 °C) 0.1 m				
Mechanical durability	1000000 cycles				
Electrical composition code	C3 6 single front mounting C4 6 single and double front mounting C5 5 single front mounting C6 5 single and double front mounting C7 4 single front mounting C8 4 single and double front mounting C11 3 single front mounting C15 1 single front mounting				
Device presentation	Basic element				

Environment

Protective treatment	TH		

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Ambient Air Temperature for Storage	-40158 °F (-4070 °C)
Ambient Air Temperature for Operation	-40158 °F (-4070 °C)
Overvoltage category	Class I IEC 60536
IP degree of protection	IP67 IEC 60529 IP69 IP69K
NEMA degree of protection	NEMA 13 NEMA 4X
IK degree of protection	IK06 IEC 50102
Standards	JIS C8201-5-1 EN/IEC 60947-5-1 EN/IEC 60947-5-4 EN/IEC 60947-1 CSA C22.2 No 14 EN/IEC 60947-5-5 UL 508 JIS C8201-1
Product certifications	BV LROS (Lloyds register of shipping) DNV UL Listed CSA GL
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 details

Category	22468-PUSHBUTTONS,22MM(METAL) NEW				
Discount Schedule	CS2				
GTIN	3389110888935				
Nbr. of units in pkg.	1				
Package weight(Lbs)	1.55 oz (44.0 g)				
Returnability	Yes				
Country of origin	FR				

Packing Units

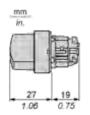
Unit Type of Package 1	PCE			
	1 02			
Package 1 Height	1.38 in (3.5 cm)			
Package 1 width	2.13 in (5.4 cm)			
Package 1 Length	2.13 in (5.4 cm)			
Unit Type of Package 2	P06			
Number of Units in Package 2	2000			
Package 2 Weight	226.20 lb(US) (102.604 kg)			
Package 2 Height	30.31 in (77 cm)			
Package 2 width	23.62 in (60 cm)			
Package 2 Length	31.50 in (80 cm)			
Unit Type of Package 3	S03			
Number of Units in Package 3	250			
Package 3 Weight	25.81 lb(US) (11.706 kg)			
Package 3 Height	11.81 in (30 cm)			

Contractual warranty Warranty	18 months			
Circularity Profile	End of Life Information			
Environmental Disclosure	Product Environmental Profile			
China RoHS Regulation	China RoHS declaration			
RoHS exemption information	Yes			
Mercury free	Yes			
Toxic heavy metal free	Yes			
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration			
REACh free of SVHC	Yes			
REACh Regulation	REACh Declaration			
California proposition 65	WARNING: This product can expose you to chemicals including: Di-isodecyl phthalate (DIDP), wh known to the State of California to cause birth defects or other reproductive harm. For more inform go to P65Warnings website			
Sustainable offer status	Green Premium product			
Offer Sustainability				
Package 3 Length	15.75 in (40 cm)			
Package 3 width	11.81 in (30 cm)			

ZB4BD2

Dimensions Drawings

Dimensions





ZB4BD2

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

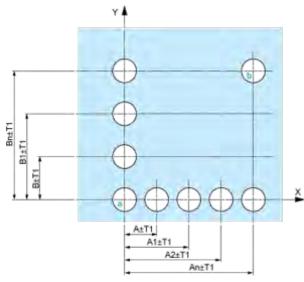
- (1) Diameter on finished panel or support
- (2) 40 mm min. / 1.57 in. min.
- (3) 30 mm min. / 1.18 in. min.
- **(4)** Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm $_0^{+0.4}$ / 0.88 in. $_0^{+0.016}$)
- **(5)** 45 mm min. / 1.78 in. min.
- (6) 32 mm min. / 1.26 in. min.

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Mounting and Clearance

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

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

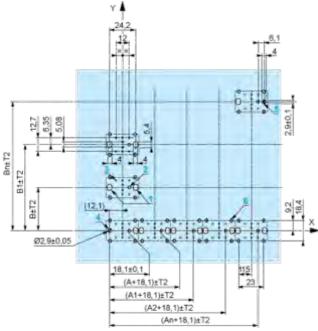


A: 30 mm min. / 1.18 in. min.

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

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

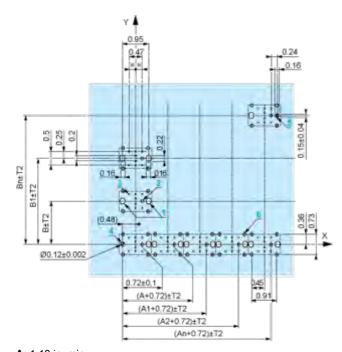
Dimensions in mm



A: 30 mm min.

B: 40 mm min.

Dimensions in in.



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

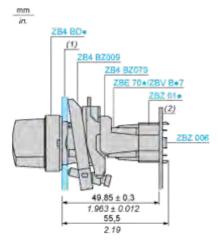
General Tolerances of the Panel and Printed Circuit Board

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

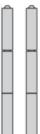
Mounting of Adapter (Socket) ZBZ 01•

- 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•.

ZB4BD2

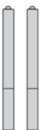
Technical Description



Technical Description

Electrical Composition Corresponding to Code C4

ZB4BD2



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Technical Description



Product data sheet ZB4BD2

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Technical Description



Product data sheet ZB4BD2

Technical Description



ZB4BD2

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 + N/C or 1 N/O + N/O or 1 N/C + N/C



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Technical Description

Legend	١
Logona	

Single contact

Î

Double contact



Light block



Possible location



Life Is On Schneider

ZB4BD2

Technical Description

Sequence of Contacts Fitted to 2-position Selector Switch Body

Position 315°



Push	Position Top				
		Bottom	Δ	Δ	Δ
	State		Left	Centre	Right
			0	0	0
Contacts	N/O		open	open	open
	N/C		closed	closed	closed

Position 45°



Push	Position	Тор			
		Bottom			
	Location		Left	Centre	Right
	State		1	1	1
Contacts	N/O		closed	closed	closed
	N/C		open	open	open