

Harmony, 22mm Push Button, selector switch operating head, 3 position, spring return, black, unmarked

ZB4BD5

Product availability: Stock - Normally stocked in distribution facility

### Main

Range of Product	Harmony XB4			
Product or Component Type	Head for selector switch			
Device short name	ZB4			
Bezel material	Chromium plated metal			
Mounting diameter	0.9 in (22.5 mm)			
Head type	Standard			
Sale per indivisible quantity	1			
Shape of signaling unit head	Round			
Type of operator	To centre spring return			
Operator profile	Black standard handle			
Operator position information	3 positions +/- 45°			
Cap/operator or lens colour	Black			

## Complementary

	C5 5 single front mounting C6 5 single and double front mounting				
Electrical composition code	C3 6 single front mounting C4 6 single and double front mounting				
Mechanical durability	1000000 cycles				
Resistance to high pressure washer	1015.3 psi (7000000 Pa) 131 °F (55 °C) 0.1 m				
Net Weight	0.09 lb(US) (0.04 kg)				
CAD overall depth	1.7 in (44 mm)				
CAD overall height	1.1 in (29 mm)				
CAD overall width	1.1 in (29 mm)				

## **Environment**

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

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Overvoltage category	Class I conforming to IEC 60536	
IP degree of protection	IP67 IEC 60529 IP69 IP69K	
NEMA degree of protection	NEMA 13 NEMA 4X	
IK degree of protection	IK06 conforming to IEC 50102	
Standards	IEC 60947-5-5 IEC 60947-1 IEC 60947-5-4 CSA C22.2 No 14 IEC 60947-5-1 JIS C8201-5-1 UL 508 JIS C8201-1	
Product Certifications	BV CSA DNV LROS (Lloyds register of shipping) UL Listed	
Vibration resistance	5 gn (f= 2500 Hz) conforming to 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	US10CS222468				
Discount Schedule	0CS2				
GTIN	3389110888973				
Returnability	Yes				
Country of origin	MX				

# **Packing Units**

Unit Type of Package 1	PCE				
Number of Units in Package 1	1				
Package 1 Height	1.38 in (3.500 cm)				
Package 1 Width	2.09 in (5.300 cm)				
Package 1 Length	2.13 in (5.400 cm)				
Package 1 Weight	1.552 oz (44.000 g)				
Unit Type of Package 2	S03				
Number of Units in Package 2	250				
Package 2 Height	11.81 in (30.000 cm)				
Package 2 Width	11.81 in (30.000 cm)				
Package 2 Length	15.75 in (40.000 cm)				
Package 2 Weight	25.342 lb(US) (11.495 kg)				
Unit Type of Package 3	P06				
Number of Units in Package 3	2000				
Package 3 Height	29.53 in (75.000 cm)				
Package 3 Width	23.62 in (60.000 cm)				

Package 3 Length	31.50 in (80.000 cm)
Package 3 Weight	229.731 lb(US) (104.204 kg)

## **Contractual warranty**

Warranty 18 months



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

#### Environmental Data explained >

How we assess product sustainability >

☑ Environmental footprint	
Carbon footprint (kg CO2 eq, Total Life cycle)	1
Environmental Disclosure	Product Environmental Profile

### **Use Better**

Materials and Substances	
Packaging made with recycled cardboard	No
Packaging without single use plastic	No
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
REACh Regulation	REACh Declaration
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.gov

### **Use Again**

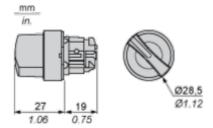
○ Repack and remanufacture				
Circularity Profile	End of Life Information			
Take-back	No			

# Product data sheet

## ZB4BD5

**Dimensions Drawings** 

## **Dimensions**



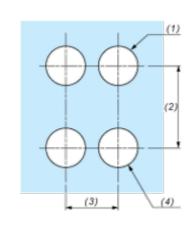
## ZB4BD5

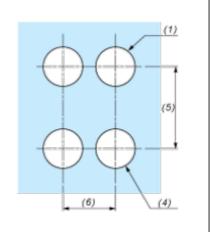
### Mounting and Clearance

# 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** 

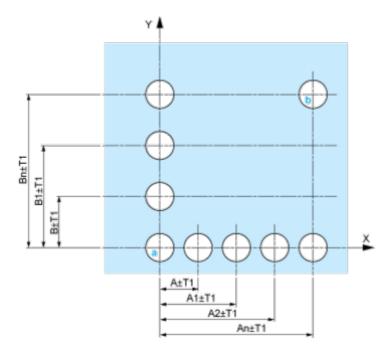




- (1) Diameter on finished panel or support
- (2) 40 mm min. / 1.57 in. min.
- (3) 30 mm min. / 1.18 in. min.
- (4) Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm  $_0^{+0.4}$  / 0.88 in.  $_0^{+0.016}$ )
- (5) 45 mm min. / 1.78 in. min.
- (6) 32 mm min. / 1.26 in. min.

### Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

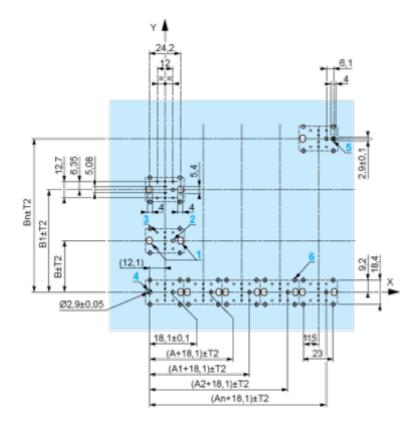
### Panel Cut-outs (Viewed from Installer's Side)



**A:** 30 mm min. / 1.18 in. min. **B:** 40 mm min. / 1.57 in. min.

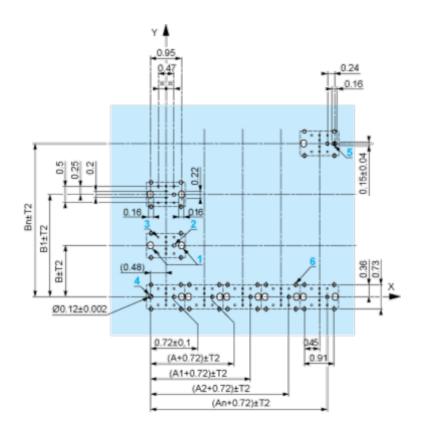
### Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

Dimensions in mm



A: 30 mm min. B: 40 mm min. Dimensions in in.

### **ZB4BD5**



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

#### General Tolerances of the Panel and Printed Circuit Board

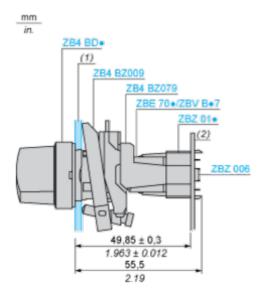
The cumulative tolerance must not exceed 0.3 mm / 0.012 in: T1 + T2 = 0.3 mm max.

#### **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**.

### **ZB4BD5**



- (1) Panel
- (2) Printed circuit board

### Mounting of Adapter (Socket) ZBZ 01•

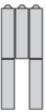
- 1 2 elongated holes for ZBZ 006 screw access
- 2 1 hole Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 for centring adapter ZBZ 01•
- 3 8 × Ø 1.2 mm / 0.05 in. holes
- $_{ullet}$  4 1 hole Ø 2.9 mm  $\pm$  0.05 / 0.11 in.  $\pm$  0.002, for aligning the printed circuit board (with cut-out marked a)
- 5 1 elongated 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•.

**Technical Description** 



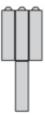


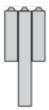


# Product data sheet

## ZB4BD5







## **Product data sheet**

## ZB4BD5

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



## Legend

Single contact



Double contact



Light block



Possible location



## Sequence of Contacts Fitted to 3-position Selector Switch Body

### Position 315°



		Тор			
Push	Position Bottom				
	Location		Left	Centre	Right
	State		1	1	0
011-	N/O		closed	closed	open
Contacts	N/C		open	open	closed

### Position 0°



Position		Тор			
	Bottom			$\triangle$	
	Location		Left	Centre	Right
	State		0	0	0
Contacts	N/O		open	open	open
Contacts	N/C		closed	closed	closed

### Position 45°

## **Product data sheet**

## **ZB4BD5**

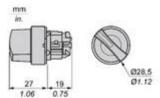


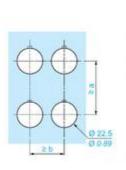
Push	Position	Тор				
		Bottom				
	Location		Left	Centre	Right	
	State		0	1	1	
Contacts	N/O		open	closed	closed	
	N/C		closed	open	open	

## **ZB4BD5**

## **Technical Illustration**

### **Dimensions**





		a (mm)	a (in.)	b (mm)	b (in.)
ZBE•••••	ZBV••••	40	1.57	30	1,18
ZBE3	ZBV••••3	45	1.77	32	1.26
ZBE•••••4	ZBV••••4	40	1.57	30	1.18
ZBE5	ZBV 5	50	1.97	30	1,18
ZBE9	ZBV••••9	40	1.57	30	1.18
ZBRT•	ZBRV1	40	1.57	30	1.18

Offer Marketing Illustration

#### **Product benefits / Features**

## **Technical Benefits**

### Harmony XB4



Offer Marketing Illustration

#### **Product benefits / Features**



Image of product / Alternate images

**Alternative** 







