Specifications



#### ① Discontinued

# blue selector switch head Ø22 3position spring return

ZB4BD506

- () Discontinued on: Oct 20, 2020
- (!) End-of-service on: Jan 22, 2021

### 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 mm)		
Head type	Standard		
Sale per indivisible quantity	1		
Shape of signaling unit head	Round		
Type of operator	To centre spring return		
Operator profile	Blue standard handle		
Operator position information	3 positions +/- 45°		

## Complementary

• •				
CAD overall width	1.1 in (29 mm)			
CAD overall height	1.1 in (29 mm)			
CAD overall depth	1.7 in (44 mm)			
net weight	0.09 lb(US) (0.04 kg)			
Resistance to high pressure washer	1015.3 psi (7000000 Pa) 131.0000000000 °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			
device presentation	Basic element			

## Environment

protective treatment	ТН
Ambient air temperature for storage	-40.000000000158.0000000000 °F (-4070 °C)
Ambient air temperature for operation	-40.000000000158.0000000000 °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 conforming to IEC 50102			
Standards	EN/IEC 60947-5-5			
	UL 508			
	CSA C22.2 No 14			
	EN/IEC 60947-5-1			
	JIS C8201-5-1			
	EN/IEC 60947-5-4			
	EN/IEC 60947-1			
	JIS C8201-1			
Product certifications	UL listed			
	BV			
	CSA			
	DNV			
	GL			
	LROS (Lloyds register of shipping)			
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			

# **Contractual warranty**

Warranty

18 months

### **Sustainability**

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

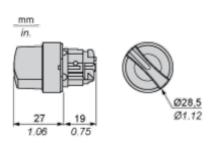
Guide to assess a product's sustainability >

### Well-being performance

	Reach Free Of Svhc	
	Toxic Heavy Metal Free	
	Mercury Free	
	Rohs Exemption Information	Yes
Rea	ch Regulation	REACh Declaration
Eu f	Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Chir	na Rohs Regulation	China RoHS declaration

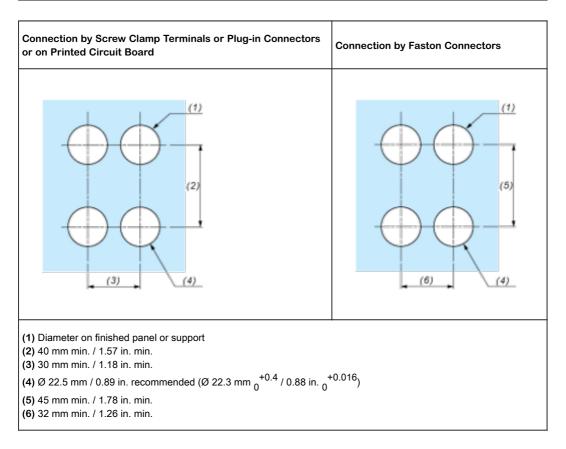
### **Dimensions Drawings**

#### Dimensions



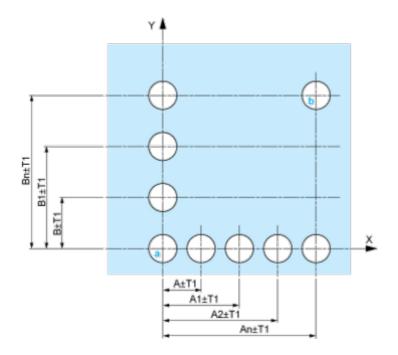
Mounting and Clearance

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



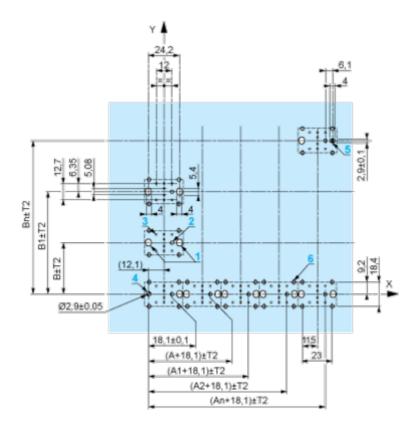
#### Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

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

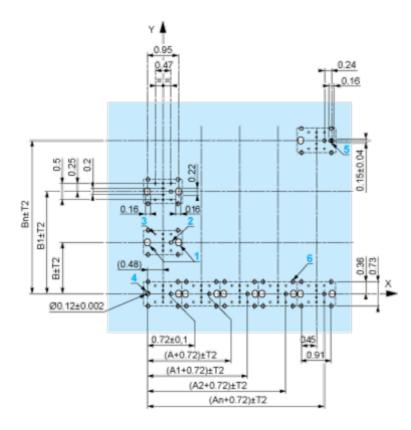


**A:** 30 mm min. / 1.18 in. min. **B:** 40 mm min. / 1.57 in. min.

#### 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.

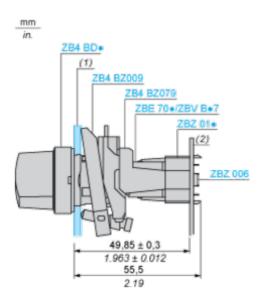
#### General Tolerances of the Panel and Printed Circuit Board

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:
  - 。 every 90 mm / 3.54 in. horizontally (X), and 120 mm / 4.72 in. vertically (Y).
    - 。 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•

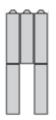
- 1 2 elongated holes for ZBZ 006 screw access
- 2 1 hole Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 for centring adapter ZBZ 01•
- 3 8 × Ø 1.2 mm / 0.05 in. holes
- 4 1 hole Ø 2.9 mm  $\pm$  0.05 / 0.11 in.  $\pm$  0.002, for aligning the printed circuit board (with cut-out marked a)
- 5 1 elongated hole for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

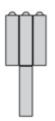
**Technical Description** 

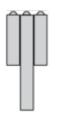












Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1



#### Legend

Single contact



#### Double contact



Light block



Possible location





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

#### Position 315°



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

#### Position 0°



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

Position 45°



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