Specifications



Harmony XB5, Selector switch head, plastic, white, Ø22, 3 positions, spring return to center, grey bezel

ZB5AD501C0

## Main

mann			
Range Of Product	Harmony XB5		
Product Or Component Type	Head for selector switch		
Device Short Name	ZB5		
Bezel Material	Plastic colour plated grey		
Mounting Diameter	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	White standard handle		
Operator Position Information	3 positions +/- 45°		

## Complementary

Cad Overall Width	29 mm			
Cad Overall Height	29 mm			
Cad Overall Depth	46 mm			
Net Weight	0.017 kg			
Mechanical Durability	1000000 cycles			
Station Name	XALD 15 cut-outs XALK 25 cut-outs			
Electrical Composition Code	C3 for <6 contacts using single blocks in front mounting C4 for <6 contacts using single and double blocks in front mounting C5 for <5 contacts using single blocks in front mounting C6 for <5 contacts using single and double blocks in front mounting C7 for <4 contacts using single blocks in front mounting C8 for <4 contacts using single and double blocks in front mounting C11 for <3 contacts using single blocks in front mounting SF1 for <3 contacts using single blocks in front mounting SR1 for <3 contacts using single blocks in rear mounting			

**Device Presentation** 

Basic element

# Environment

Protective Treatment	тн
Ambient Air Temperature For Storage	-4070 °C
Ambient Air Temperature For Operation	-4070 °C
Overvoltage Category	Class II conforming to IEC 60536

Ip Degree Of Protection	IP67 conforming to IEC 60529				
Nema Degree Of Protection	NEMA 13 NEMA 4X				
Desistence To Llink Dessue					
Resistance To High Pressure Washer	7000000 Pa at 55 °C, distance : 0.1 m				
Ik Degree Of Protection	n IK06 conforming to IEC 50102				
Product Certifications	LROS (Lloyds register of shipping)				
	BV				
	DNV				
	UL listed				
	GL				
	CSA				
Vibration 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	4.2 cm
Package 1 Width	3.3 cm
Package 1 Length	5.2 cm
Package 1 Weight	24.0 g

## **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 >

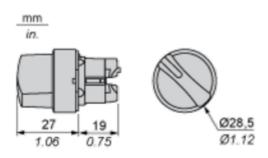
Guide to assess a product's sustainability >

## Well-being performance

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

## **Dimensions Drawings**

### Dimensions



#### **ZB5AD501C0** Product data sheet

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

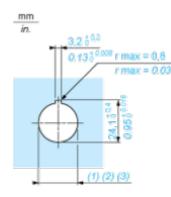


(1) Diameter on finished panel or support

(2) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended. (3)  $\emptyset$ 22.5 mm recommended ( $\emptyset$ 22.3  $_0^{+0.4}$ ) /  $\emptyset$ 0.89 in. recommended ( $\emptyset$ 0.88 in.  $_0^{+0.016}$ )

5				0
Connections	a in mm	a in in.	b in mm	b in in.
By screw clamp terminals or plug-in connector	40	1.57	30	1.18
By Faston connectors	45	1.77	32	1.26
On printed circuit board	30	1.18	30	1.18

#### **Detail of Lug Recess**

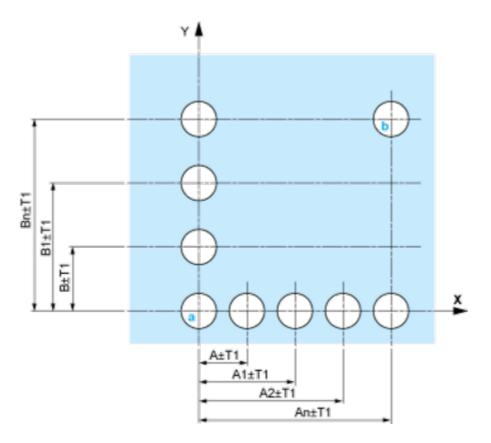


(1) Diameter on finished panel or support

- (2) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.
- (3)  $\emptyset$ 22.5 mm recommended ( $\emptyset$ 22.3  $_0^{+0.4}$ ) /  $\emptyset$ 0.89 in. recommended ( $\emptyset$ 0.88 in.  $_0^{+0.016}$ )

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

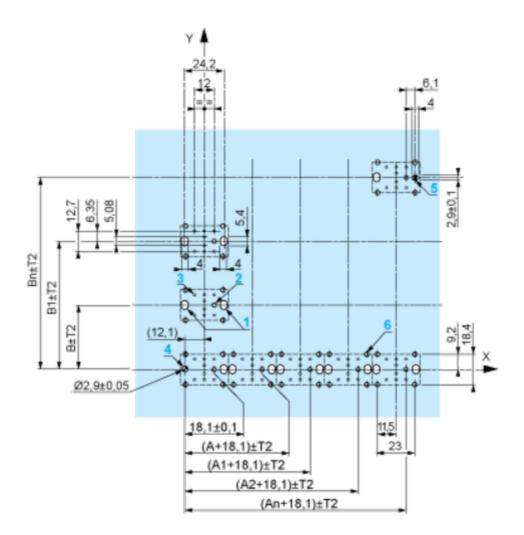
Panel Cut-outs (Viewed from Installer's Side)



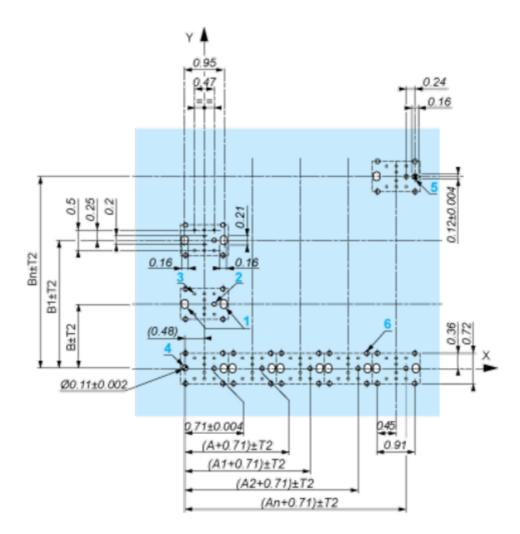
**A:** 30 mm min. / 1.18 in. min. **B:** 40 mm min. / 1.57 in. min.

## 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.

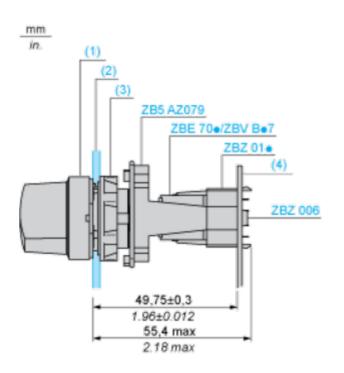
#### General Tolerances of the Panel and Printed Circuit Board

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 ZB5AZ009: ± 2 30' (excluding cut-outs marked **a** and **b**).
- Tightening torque of screws ZBZ006: 0.6 N.m (5.3 lbf.in) max.
- Allow for one ZB5AZ079 fixing collar/pillar and its fixing screws:
  - $_{\circ}~$  every 90 mm / 3.54 in. horizontally (X), and 120 mm / 4.72 in. vertically (Y).
    - with each selector switch head (ZB5AD•, ZB5AJ•, ZB5AG•).

The fixing centers marked a and b are diagonally opposed and must align with those marked 4 and 5.



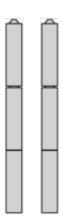
- (1) Head ZB5AD•
- (2) Panel
- (2) Nut
- (4) Printed circuit board

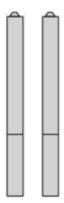
#### Mounting of Adapter (Socket) ZBZ01•

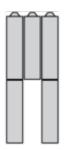
- 1 2 elongated holes for ZBZ006 screw access
- 2 1 hole Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 for centring adapter ZBZ01•
- 3 8 × Ø 1.2 mm / 0.05 in. holes
- 4 1 hole Ø 2.9 mm ± 0.05 / 0.11 in. ± 0.002, for aligning the printed circuit board (with cut-out marked a)
- 5 1 elongated hole for aligning the printed circuit board (with cut-out marked b)
- 6 4 holes Ø 2.4 mm / 0.09 in. for clipping in adapter ZBZ01•

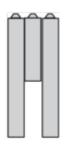
Dimensions An + 18.1 relate to the Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 holes for centring adapter ZBZ01•.

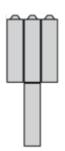
**Technical Description** 

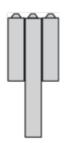












Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1



#### Electrical Composition Corresponding to Code C15

1 N/O



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



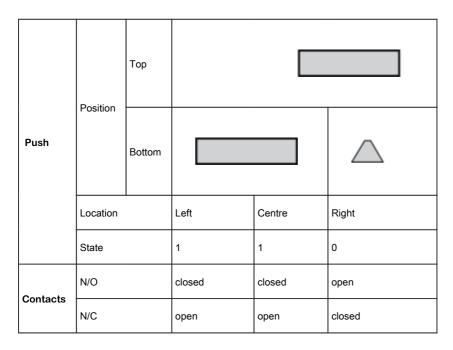
Possible location



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

#### Position 315°





#### Position 0°



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

Life Is On Schneider