Specifications





Head for illuminated selector switch, Harmony XB5, dark grey plastic, white handle, 22mm, universal LED, 3 positions, left to center

ZB5AK1713

### Main

Range Of Product	Harmony XB5				
Product Or Component Type	Head for illuminated selector switch				
Product Compatibility	Universal LED				
Device Short Name	ZB5				
Bezel Material	Dark grey plastic				
Mounting Diameter	22 mm				
Head Type	Standard				
Sale Per Indivisible Quantity	1				
Shape Of Signaling Unit Head	Round				
Type Of Operator	Left 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	43 mm
Net Weight	0.016 kg
Mechanical Durability	500000 cycles
Station Name	XALD 15 cut-outs XALK 25 cut-outs
Electrical Composition Code	M3 for <4 contacts using single blocks in front mounting with integral LED M6 for <2 contacts using single blocks in front mounting with integral LED and transformer M10 for <2 contacts using single blocks in front mounting with integral LED MF1 for <2 contacts using single blocks in front mounting with integral LED MR1 for <2 contacts using single blocks in rear mounting with integral LED MR1 for <4 contacts using single and double blocks in front mounting with integral LED
Device Presentation	Pacie element

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	IP66 conforming to IEC 60529 IP67 IP69 IP69K				
Nema Degree Of Protection	NEMA 13 NEMA 4X				
Resistance To High Pressure Washer	7000000 Pa at 55 °C, distance : 0.1 m				
Ik Degree Of Protection	IK04 conforming to IEC 50102				
Standards	EN/IEC 60947-5-4 JIS C8201-5-1 EN/IEC 60947-5-5 UL 508 EN/IEC 60947-5-1 CSA C22.2 No 14 EN/IEC 60947-1 JIS C8201-1				
Product Certifications	CSA LROS (Lloyds register of shipping) DNV GL UL listed BV				
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 1     60068-2-27   50 gn (duration = 11 ms) for half sine wave acceleration conforming to 1     60068-2-27   50 gn (duration = 11 ms) for half sine wave acceleration conforming to 1					

## **Packing Units**

-	
Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	5.4 cm
Package 1 Width	2.1 cm
Package 1 Length	3.4 cm
Package 1 Weight	56.0 g

## **Contractual warranty**

Warranty

18 months

### Sustainability Screen Premium

**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 >



Transparency RoHS/REACh

### Well-being performance

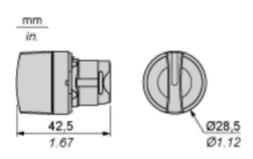
Reach Free Of Svhc
Toxic Heavy Metal Free
Mercury Free
Rohs Exemption Information Yes

### **Certifications & Standards**

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
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

### **Dimensions Drawings**

#### Dimensions



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

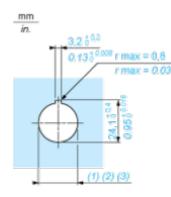


(1) Diameter on finished panel or support

(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.  $_0^{+0.016}$ )

				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**

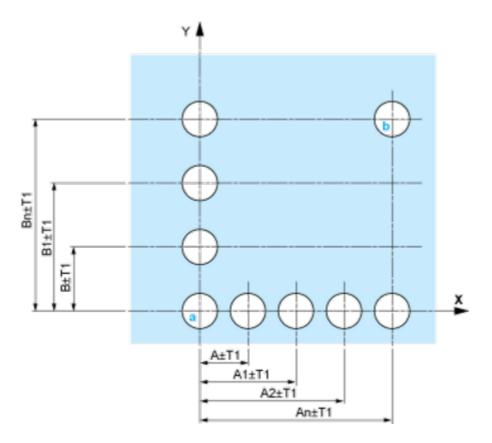


(1) Diameter on finished panel or support

- (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

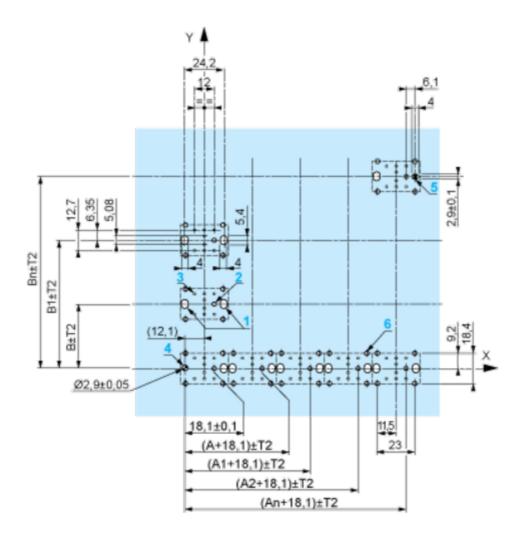
Panel Cut-outs (Viewed from Installer's Side)



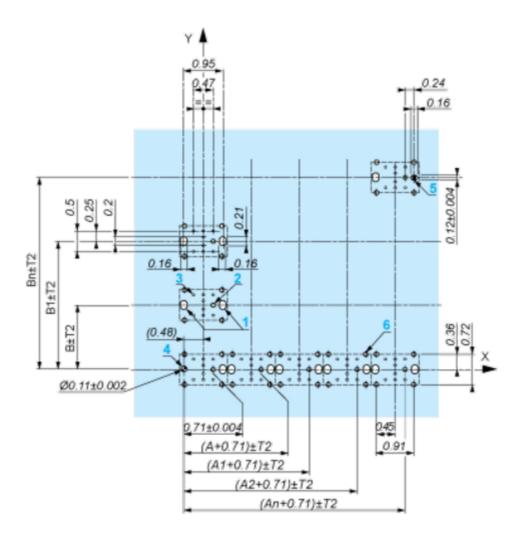
**A:** 30 mm min. / 1.18 in. min. **B:** 40 mm min. / 1.57 in. min.

### 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.

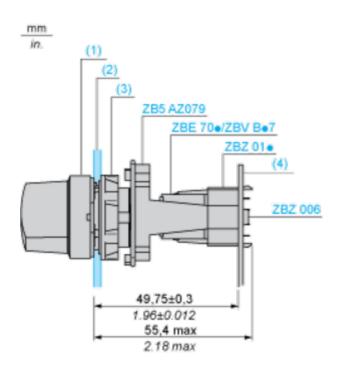
#### General Tolerances of the Panel and Printed Circuit Board

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).
    - o 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

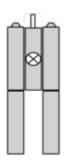
#### Mounting of Adapter (Socket) ZBZ01•

- 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•

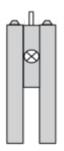
Dimensions An + 18.1 relate to the Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 holes for centring adapter ZBZ01•.

**Technical Description** 

Electrical Composition Corresponding to Code M3



Electrical Composition Corresponding to Code M4



Electrical Composition Corresponding to Codes M6 and P2



Electrical Composition Corresponding to Codes M5, M10, MF1, MR1 and MF2



#### Legend

Single contact



Double contact



Light block



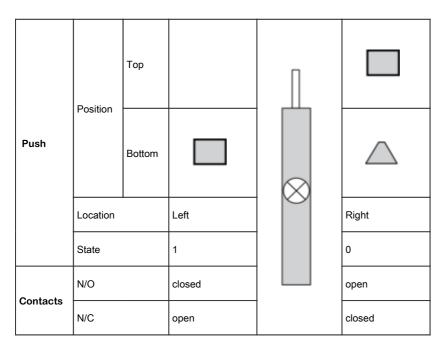
Possible location



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

#### Position 315°





#### Position 0°



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

#### Position 45°



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