

Head for key selector switch, Harmony XB5, plastic, black, 22mm, key 455, 3 positions, spring return from left to center

ZB5AG1

## Main

Range of product	Harmony XB5				
Product or component type	Head for key selector switch				
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	Black key switch				
Operator position information	3 positions +/- 45°				
Type of keylock	Key 455				
Key withdrawal position	Right				

# Complementary

CAD overall width	29 mm	
CAD overall height	29 mm	
CAD overall depth	72 mm	
Net weight	0.057 kg	
Mechanical durability	1000000 cycles	
Station name	XALD 15 cut-outs XALK 25 cut-outs	
Electrical composition code	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 C3 for <6 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	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	IK06 conforming to IEC 50102				
Standards	IEC 60947-5-4 UL 508 JIS C8201-5-1 IEC 60947-5-1 IEC 60947-1 CSA C22.2 No 14 JIS C8201-1				
Product certifications	DNV CSA BV LROS (Lloyds register of shipping) UL listed				
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	8.700 cm
Package 1 Width	3.400 cm
Package 1 Length	5.300 cm
Package 1 Weight	67.000 g
Unit Type of Package 2	BB1
Number of Units in Package 2	5
Package 2 Height	8.700 cm
Package 2 Width	3.400 cm
Package 2 Length	26.500 cm
Package 2 Weight	337.000 g
Unit Type of Package 3	S02
Number of Units in Package 3	50
Package 3 Height	15.000 cm
Package 3 Width	30.000 cm
Package 3 Length	40.000 cm
Package 3 Weight	3.694 kg

# **Contractual warranty**

Warranty

Sep 19, 2025

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	
Total lifecycle Carbon footprint	1
Environmental Disclosure	Product Environmental Profile

#### **Use Better**

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)
SCIP Number	F28cb399-1b6a-409d-ac7b-4169e47b25c8
REACh Regulation	REACh Declaration
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

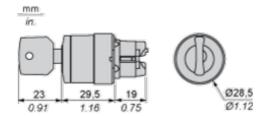
## **Use Again**

○ Repack and remanufacture	
End of life manual availability	End of Life Information
Take-back	No

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# **Dimensions Drawings**

# **Dimensions**

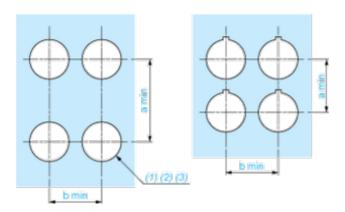


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#### Mounting and Clearance

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

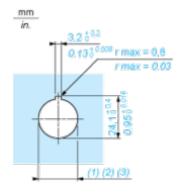
#### Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (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) Ø22.5 mm recommended (Ø22.3  $_0^{+0.4}$ ) / Ø0.89 in. recommended (Ø0.88 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

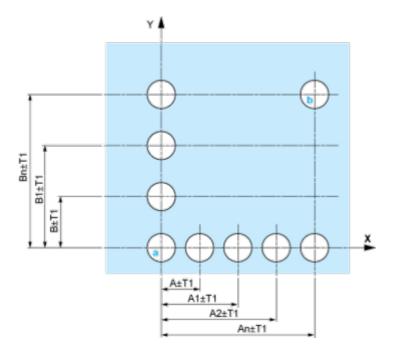
#### **Detail of Lug Recess**



- (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) Ø22.5 mm recommended (Ø22.3  $_0^{+0.4}$ ) / Ø0.89 in. recommended (Ø0.88 in.  $_0^{+0.016}$ )

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

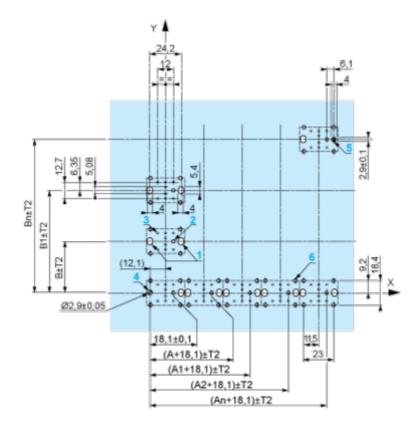
#### Panel Cut-outs (Viewed from Installer's Side)



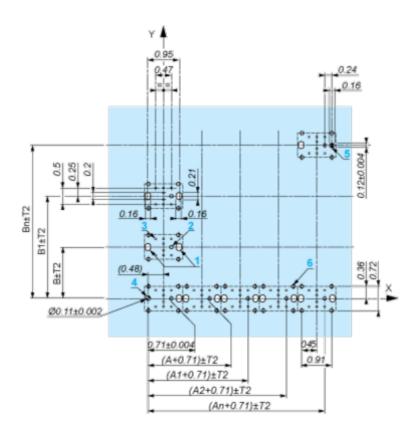
**A:** 30 mm min. / 1.18 in. min. **B:** 40 mm min. / 1.57 in. min.

#### 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.

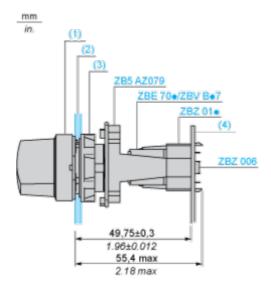
#### General Tolerances of the Panel and Printed Circuit Board

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  ${\bf a}$  and  ${\bf b}$  are diagonally opposed and must align with those marked  ${\bf 4}$  and  ${\bf 5}$ .



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- (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
- $_{ullet}$  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 ZBZ01•

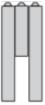
Dimensions An + 18.1 relate to the Ø 2.4 mm  $\pm$  0.05 / 0.09 in.  $\pm$  0.002 holes for centring adapter ZBZ01•.

**Technical Description** 



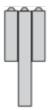
ZB5AG1





# ZB5AG1







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



# Legend

Single contact



Double contact



Light block



Possible location



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

#### Position 315°



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

## Position 0°



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

## Position 45°

# ZB5AG1



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

#### **Technical Illustration**

#### **Dimensions**

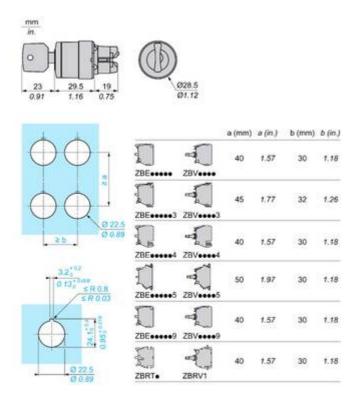


Image of product / Alternate images

## **Alternative**











