Specifications



Key selector switch head, Harmony XB5, plastic, black, 22mm, key 455, 2 positions, stay put

ZB5AG2

#### Main

Wall			
Range of product	Harmony XB5 Harmony XALF		
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	stay put		
Operator profile	Black key switch		
Operator position information	2 positions 90°		
Type of keylock	Key 455		
Key withdrawal position	Left		

#### 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 C15 for <1 contacts using single blocks in front mounting
Device presentation	Basic 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	IK06 conforming to IEC 50102				
Standards	UL 508 EN/IEC 60947-5-1 EN/IEC 60947-1 CSA C22.2 No 14 JIS C8201-5-1 EN/IEC 60947-5-4 JIS C8201-1				
Product certifications	CSA BV UL listed DNV GL LROS (Lloyds register of shipping)				
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	Db			
Number of Units in Package 1	1			
Package 1 Height	3.8 cm			
Package 1 Width	5.5 cm			
Package 1 Length	9.1 cm			
Package 1 Weight	66 g			
Unit Type of Package 2	Gyári csomagolás			
Number of Units in Package 2	5			
Package 2 Height	8.8 cm			
Package 2 Width	5.2 cm			
Package 2 Length	26.5 cm			
Package 2 Weight	333 g			
Unit Type of Package 3	Doboz			
Number of Units in Package 3	150			
Package 3 Height	30 cm			
Package 3 Width	30 cm			
Package 3 Length	40 cm			
Package 3 Weight	10.486 kg			

### Offer Sustainability

Sustainable offer status	Green Premium product			
REACh Regulation	REACh Declaration			
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration			
Mercury free	Yes			
China RoHS Regulation	China RoHS declaration			
RoHS exemption information	Yes			
Environmental Disclosure	Product Environmental Profile			
Circularity Profile	End of Life Information			
California proposition 65 WARNING: This product can expose you to chemicals including: Lead and lead compound known to the State of California to cause cancer and birth defects or other reproductive har information go to www.P65Warnings.ca.gov				

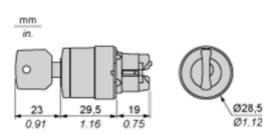
### Contractual warranty

Warranty

18 months

**Dimensions Drawings** 

### Dimensions

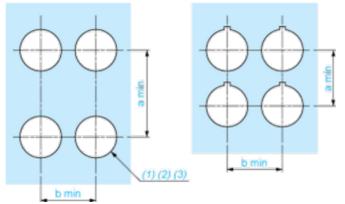




Mounting and Clearance

#### 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



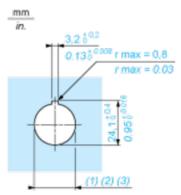
(1) Diameter on finished panel or support

(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.  $_{0}^{+0.016}$ )

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.  $_{0}^{+0.016}$ )

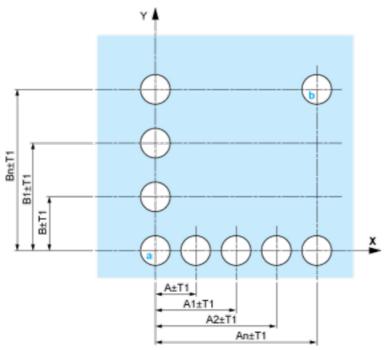
Life Is On Schneider

ZB5AG2

Mounting and Clearance

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

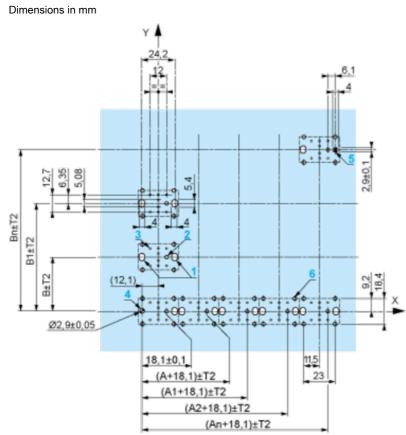
#### Panel Cut-outs (Viewed from Installer's Side)



A: 30 mm min. / 1.18 in. min.

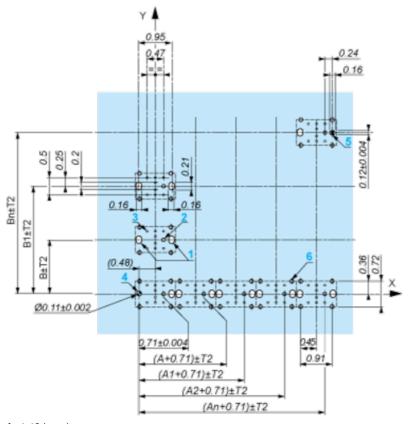
**B:** 40 mm min. / 1.57 in. min.

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



**A:** 30 mm min. **B:** 40 mm min.

Dimensions in in.





B: 1.57 in. min.

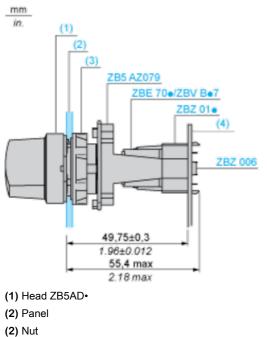
#### General Tolerances of the Panel and Printed Circuit Board

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).
  - $^{\circ}$  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.



(4) Printed circuit board

7

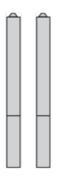
#### Mounting of Adapter (Socket) ZBZ01•

- 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  $\pm$  0.05 / 0.09 in.  $\pm$  0.002 holes for centring adapter ZBZ01+.

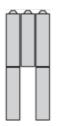
ZB5AG2

Technical Description





Technical Description

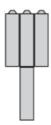


Technical Description

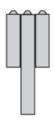




Technical Description

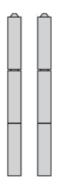


Technical Description





Technical Description



ZB5AG2

Technical Description

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





Technical Description

#### Legend

Single contact



#### Double contact



#### Light block



#### Possible location



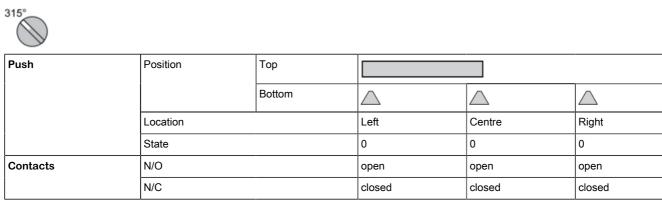


ZB5AG2

Technical Description

### Sequence of Contacts Fitted to 2-position Selector Switch Body

#### Position 315°



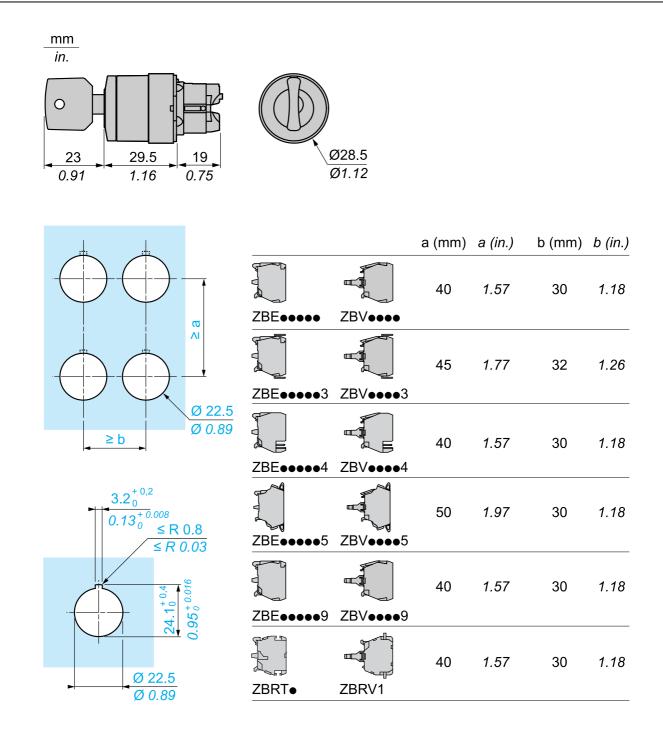
#### Position 45°



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

**Technical Illustration** 

#### Dimensions



Recommended replacement(s)