ZB5AD2801C0

white toggle switch head Ø22 2-position stay put cp grey



Main	
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	0.87 in (22 mm)
Sale per indivisible quantity	1
Head type	Standard
Shape of signaling unit head	Round
Type of operator	Stay put
Operator profile	Black toggle switch
Operator additional information	White lever
Operator position information	2 positions 90°

Complementary

o to configuration details with mountaining
C13 6 single and double front mounting
SR1 3 single rear mounting
SF1 3 single front mounting
C15 1 single front mounting
C12 6 single front mounting
C11 3 single front mounting
XALK 25 cut-outs
XALD 15 cut-outs
500000 cycles
0.05 lb(US) (0.023 kg)
1.77 in (45 mm)
1.14 in (29 mm)
1.14 in (29 mm)

Environment

Protective treatment	TH			
Ambient air temperature for storage	-40158 °F (-4070 °C)			
Ambient air temperature for operation	-40158 °F (-4070 °C)			
Overvoltage category	Class II IEC 60536			
IP degree of protection	IP66 IEC 60529			
NEMA degree of protection	NEMA 13 NEMA 4X			
Resistance to high pressure washer	1015.26 psi (7000000 Pa) 131 °F (55 °C) 0.1 m			
IK degree of protection	IK06			
Standards	CSA C22.2 No 14 UL 508 EN/IEC 60947-1 JIS C8201-5-1 EN/IEC 60947-5-4 EN/IEC 60947-5-1 JIS C8201-1			

Product certifications	RINA				
	DNV				
	BV				
	GL				
	CSA LROS (Lloyds register of shipping)				
	UL Listed				
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				
Ordering and shipping details					
Daalaaa	0.04 (0.000)				
Package weight(Lbs)	0.81 oz (23.000 g)				
	0.81 oz (23.000 g)				
Packing Units	0.81 oz (23.000 g)				
	0.81 oz (23.000 g) 1.65 in (4.200 cm)				
Packing Units					
Packing Units Package 1 Height	1.65 in (4.200 cm)				
Packing Units Package 1 Height Package 1 width	1.65 in (4.200 cm) 1.30 in (3.300 cm)				
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Packing Units Package 1 Height Package 1 width Package 1 Length	1.65 in (4.200 cm) 1.30 in (3.300 cm)				
Packing Units Package 1 Height Package 1 width Package 1 Length Offer Sustainability	1.65 in (4.200 cm) 1.30 in (3.300 cm) 2.05 in (5.200 cm) Yes				
Packing Units Package 1 Height Package 1 width Package 1 Length Offer Sustainability REACh free of SVHC	1.65 in (4.200 cm) 1.30 in (3.300 cm) 2.05 in (5.200 cm)				
Packing Units Package 1 Height Package 1 width Package 1 Length Offer Sustainability REACh free of SVHC	1.65 in (4.200 cm) 1.30 in (3.300 cm) 2.05 in (5.200 cm) Yes Pro-active compliance (Product out of EU RoHS legal scope)				
Packing Units Package 1 Height Package 1 width Package 1 Length Offer Sustainability REACh free of SVHC EU RoHS Directive	1.65 in (4.200 cm) 1.30 in (3.300 cm) 2.05 in (5.200 cm) Yes Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration				

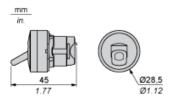
China RoHS Declaration

China RoHS Regulation

Product data sheet Dimensions Drawings

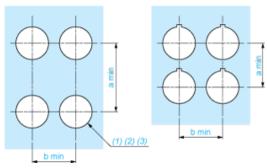
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Dimensions



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

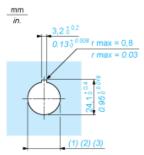
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- Diameter on finished panel or support
- For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended. \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
- For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.
- 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:
 - o 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 \pm 0.05 / 0.09 in. \pm 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•.

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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
Electrical Composition Corresponding to Code C12
Electrical Composition Corresponding to Code C13
Legend
Single contact

Double contact



Light block



Possible location

