

Product data sheet Characteristics

ZB5AD39 black selector switch head ø22 3-position stay put



	Main	
	Range of product	Harmony XB5
	Product or component type	Head for 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 knurled knob
	Operator position information	3 positions +/- 45°
Complementary		
CAD overall width	29 mm	
CAD overall height	29 mm	
CAD overall depth	46 mm	
Net weight	0.02 kg	
Mechanical durability	1000000 cycles	
Station name	XALD 15 cut-outs XALK 25 cut-outs	
Electrical composition code	C5 for <5 contacts using C6 for <5 contacts using C7 for <4 contacts using C8 for <4 contacts using C11 for <3 contacts using C3 for <6 contacts using SF1 for <3 contacts using	single and double blocks in front mounting single blocks in front mounting single and double blocks in front mounting single blocks in front mounting g single and double blocks in front mounting g single blocks in front mounting
Device presentation	Basic element	
Environment		
Protective treatment	TH	
Ambient air temperature for storage	-4070 °C	
Ambient air temperature for operation	-4070 °C	
Overvoltage category	Class II conforming to IEC	C 60536

Main



Standards	CSA C22.2 No 14 EN/IEC 60947-5-1 EN/IEC 60947-5-4 UL 508 JIS C8201-5-1 EN/IEC 60947-1 JIS C8201-1				
Product certifications	GL[RETURN]CSA[RETURN]DNV[RETURN]UL listed[RETURN]BV[RETURN]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

0	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.6 cm
Package 1 Width	3.4 cm
Package 1 Length	5.4 cm
Package 1 Weight	27.0 g
Unit Type of Package 2	S01
Number of Units in Package 2	50
Package 2 Height	15.0 cm
Package 2 Width	15.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	1.575 kg

Offer Sustainability

Green Premium product			
REACh Declaration			
Yes			
Pro-active compliance (Product out of EU RoHS legal scope)			
Yes			
Yes			
China RoHS Declaration			
₽ Yes			
Product Environmental Profile			
End Of Life Information			
-			

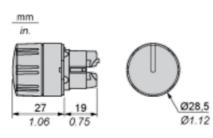
Contractual warranty

Warranty

18 months

Product data sheet Dimensions Drawings ZB5AD39

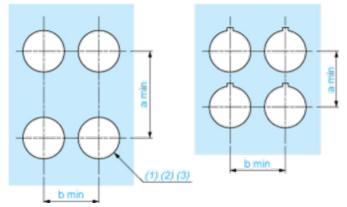
Dimensions



ZB5AD39

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})

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

Life Is On Schneider

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:
 - 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.



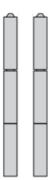
Mounting of Adapter (Socket) ZBZ01•

- 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•
- 38 × 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•.

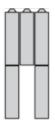
ZB5AD39

Electrical Composition Corresponding to Code C3



Electrical Composition Corresponding to Code C4

Electrical Composition Corresponding to Code C5



Electrical Composition Corresponding to Code C6

Electrical Composition Corresponding to Code C7

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°



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

Position 0°



Push	Position Top					
Bottom	\bigtriangleup	\bigtriangleup	\bigtriangleup			
Location		Left	Centre	Right		
State		0	0	0		
Contacts	N/O		open	open	open	
N/C		closed	closed	closed		

Position 45°



Push	Position	Тор			
Bottom	\bigtriangleup				
Location		Left	Centre	Right	

State		0	1	1	
Contacts	N/O		open	closed	closed
N/C		closed	open	open	