Product data sheet Characteristics

ZB5AS52

Mushroom push button head 40mm, Harmony XB5, plastic, black, 22mm, latching turn realease



	Main					
	Range of product	Harmony XB5				
Schneider	Product or component type	Head for non-illuminated push-button				
	Device short name ZB5					
	Bezel material	Dark grey plastic				
	Head type Standard					
	Mounting diameter	22 mm				
	Sale per indivisible quantity	1				
	Shape of signaling unit head	Round				
	Type of operator	latching				
	Reset	Turn to release				
	Operator profile	Black mushroom Ø 40 mm, unmarked				
	Device presentation	Basic element				
Complementary CAD overall width	40 mm					
CAD overall height	40 mm					
CAD overall depth	57 mm					
Net weight	0.044 kg					
Mechanical durability	500000 cycles					
Station name	XALD 1 cut-out XALK 1 cut-out					
Electrical composition code	C15 for <1 contacts using SF1 for <3 contacts using SR1 for <3 contacts using C7 for <4 contacts using C8 for <4 contacts using s	C11 for <3 contacts using single blocks in front mounting C15 for <1 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 C7 for <4 contacts using single blocks in front mounting C8 for <4 contacts using single and double blocks in front mounting C10 for <4 contacts using single and double blocks in front mounting				
Compatibility code	ZB5					
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 60536				
IP degree of protection		IP66 conforming to IEC 60529 IP67				

NEMA degree of protection

IK degree of protection

Resistance to high pressure washer

IP69K

NEMA 13 NEMA 4X

7000000 Pa at 55 °C, distance : 0.1 m

IK03 conforming to IEC 50102

Standards	IEC 60947-5-1 CSA C22.2 No 14 IEC 60947-5-4 IEC 60947-1 JIS C8201-5-1 UL 508 JIS C8201-1	
Product certifications	GL[RETURN]DNV[RETURN]LROS (Lloyds register of shipping)[RETURN]UL listed[RETURN]CSA[RETURN]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 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	4.5 cm
Package 1 Width	5.3 cm
Package 1 Length	8.8 cm
Package 1 Weight	42.0 g
Unit Type of Package 2	S03
Number of Units in Package 2	100
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	4.643 kg

Offer Sustainability

Green Premium product			
REACh Declaration			
Yes			
Pro-active compliance (Product out of EU RoHS legal scope) delta Bode RoHS Declaration			
Yes			
Yes			
China RoHS Declaration			
₽ Yes			

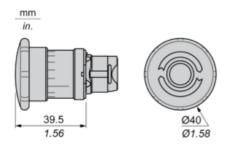
Contractual warranty

Warranty

18 months

Product data sheet Dimensions Drawings **ZB5AS52**

Dimensions

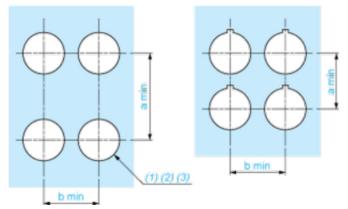




Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

ZB5AS52

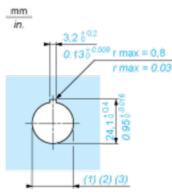
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (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

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.

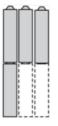


Mounting of Adapter (Socket) ZBZ01•

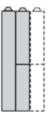
- 1 2 elongated holes for ZBZ006 screw access
- 2 1 hole Ø 2.4 mm \pm 0.05 / 0.09 in. \pm 0.002 for centring adapter ZBZ01•
- 38 × Ø 1.2 mm / 0.05 in. holes
- 4 1 hole Ø 2.9 mm ± 0.05 / 0.11 in. ± 0.002, for aligning the printed circuit board (with cut-out marked a)
- 5 1 elongated hole for aligning 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•.

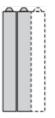
Electrical Composition Corresponding to Code C7



Electrical Compositions Corresponding to Code C8



Electrical Compositions Corresponding to Code C10



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

L.J