

Product data sheet Characteristics

ZB5AK1213

Head for illuminated selector switch, Harmony XB5, dark grey plastic, white handle, 22mm, universal LED, 2 positions



	Main			
A CONTRACT OF THE OWNER OWNER OF THE OWNER OWNER OWNER OF THE OWNER OWNE OWNER OWNE OWNER OWNE OWNER OWNE OWNE OWNE OWNER OWNE OWNER OWNE OWNE OWNE OWNE OWNE OWNE OWNE OWNE	Range of product	Harmony XB5		
	Product or component type	Head for illuminated selector switch		
	Product compatibility	Universal LED		
	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	White standard handle		
	Operator position information	2 positions 90°		
Complementary CAD overall width	29 mm			
CAD overall height	29 mm			
CAD overall depth	43 mm			
Net weight	0.016 kg			
Mechanical durability	1000000 cycles			
Station name	XALD 15 cut-outs XALK 25 cut-outs			
Electrical composition code	M3 for <4 contacts using single blocks in front mounting with integral LED M6 for <2 contacts using single blocks in front mounting with integral LED and transformer M10 for <2 contacts using single blocks in front mounting with integral LED MF1 for <2 contacts using single blocks in front mounting with integral LED MR1 for <2 contacts using single blocks in rear mounting with integral LED M4 for <4 contacts using single and double blocks in front mounting with integral LED			
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	IK04 conforming to IEC 50102
Standards	EN/IEC 60947-5-4 JIS C8201-5-1 CSA C22.2 No 14 EN/IEC 60947-5-1 EN/IEC 60947-5-5 UL 508 EN/IEC 60947-1 JIS C8201-1
Product certifications	DNV[RETURN]BV[RETURN]CSA[RETURN]GL[RETURN]LROS (Lloyds register of shipping)[RETURN]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	3.4 cm
Package 1 Width	5.6 cm
Package 1 Length	6 cm
Package 1 Weight	23 g
Unit Type of Package 2	BB1
Number of Units in Package 2	5
Package 2 Height	5.5 cm
Package 2 Width	26.5 cm
Package 2 Length	3.3 cm
Package 2 Weight	117 g
Unit Type of Package 3	S02
Number of Units in Package 3	100
Package 3 Height	15 cm
Package 3 Width	30 cm
Package 3 Length	40 cm
Package 3 Weight	2.648 kg

Offer Sustainability

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

Contractual warranty

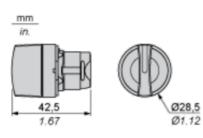
Warranty

18 months

Product data sheet Dimensions Drawings

ZB5AK1213

Dimensions

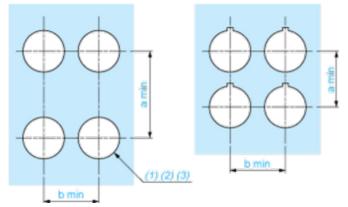




ZB5AK1213

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

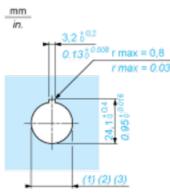
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (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.

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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.



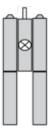
Mounting of Adapter (Socket) ZBZ01•

- 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•

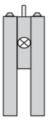
Dimensions An + 18.1 relate to the Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 holes for centring adapter ZBZ01•.

ZB5AK1213

Electrical Composition Corresponding to Code M3



Electrical Composition Corresponding to Code M4



Electrical Composition Corresponding to Codes M6 and P2



Electrical Composition Corresponding to Codes M5, M10, MF1, MR1 and MF2



Legend

Single contact



Double contact

Light block

Possible location

Sequence of Contacts Fitted to 2-position Selector Switch Body

Position 315°



Push	Position	Тор		\otimes	
Bottom	\bigtriangleup	\bigtriangleup			
Location		Left	Right		
State		0	0		
Contacts	N/O		open	open	
N/C		closed	closed		-

Position 45°



Push	Position	Тор			
Bottom				<u> </u>	
Location		Left	Right		
State		1	1		
Contacts	N/O		closed	closed	
N/C		open	open		-