Product data sheet Characteristics

ZB5AK1713

Head for illuminated selector switch, Harmony XB5, dark grey plastic, white handle, 22mm, universal LED, 3 positions, left to center



Main			
	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	Left to centre spring return		
Operator profile	White standard handle		
Operator position information	3 positions +/- 45°		
29 mm			
29 mm			
43 mm			
0.016 kg			
500000 cycles			
XALD 15 cut-outs XALK 25 cut-outs			
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			
LED			
LED Basic element			
Basic element			
	type Product compatibility Device short name Bezel material Mounting diameter Head type Sale per indivisible quantity Shape of signaling unit head Type of operator Operator profile Operator position information 29 mm 29 mm 29 mm 43 mm 0.016 kg 500000 cycles XALD 15 cut-outs XALK 25 cut-outs XALK 25 cut-outs M3 for <4 contacts using transformer M10 for <2 contacts using tra		

Class II conforming to IEC 60536 IP66 conforming to IEC 60529

7000000 Pa at 55 °C, distance : 0.1 m

IK04 conforming to IEC 50102

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentations in not intended as a substitute for and is not to be used for determining substituy of these products for specific user applications. It is the duty of any user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products for specific user applications. Neither Schneider Electric Inducties SAR nor any of its affiliates or subsidiaries shall be responsible or liable for misue of the information contained herein.

Overvoltage category

IP degree of protection

NEMA degree of protection

IK degree of protection

Resistance to high pressure washer



IP67 IP69 IP69K

NEMA 13 NEMA 4X

Standards	EN/IEC 60947-5-4
	JIS C8201-5-1
	EN/IEC 60947-5-5
	UL 508
	EN/IEC 60947-5-1
	CSA C22.2 No 14
	EN/IEC 60947-1
	JIS C8201-1
Product certifications	CSA[RETURN]LROS (Lloyds register of shipping)
	[RETURN]DNV[RETURN]GL[RETURN]UL listed[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	5.4 cm	
Package 1 Width	2.1 cm	
Package 1 Length	3.4 cm	
Package 1 Weight	56.0 g	

Offer Sustainability

Sustainable offer status	Green Premium product			
REACh Regulation	REACh Declaration			
REACh free of SVHC	Yes			
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) CEU RoHS			
Toxic heavy metal free	Yes			
Mercury free	Yes			
China RoHS Regulation	China RoHS Declaration			
RoHS exemption information	₽ Yes			
Environmental Disclosure	Product Environmental Profile			
Circularity Profile	Provide the Information			
California proposition 65	WARNING: This product can expose you to chemicals including: Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov			

Contractual warranty

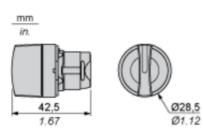
Warranty

18 months

Product data sheet Dimensions Drawings

ZB5AK1713

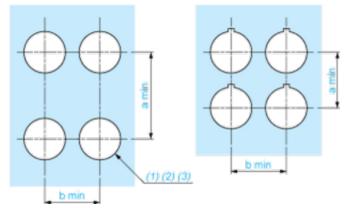
Dimensions



ZB5AK1713

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

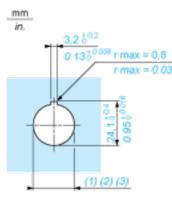
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (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.



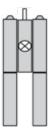
Mounting of Adapter (Socket) ZBZ01•

- 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•

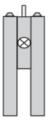
Dimensions An + 18.1 relate to the Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 holes for centring adapter ZBZ01•.

ZB5AK1713

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 3-position Selector Switch Body

Position 315°



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

Position 0°



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	\bigtriangleup				
Location		Left	Right		
State		0	1		
Contacts	N/O		open	closed	
N/C		closed	open		