

Product data sheet Characteristics

ZB5AK1513

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



	Main	Main				
	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	To centre spring return				
	Operator profile	White standard handle				
	Operator position information	3 positions +/- 45°				
Complementary						
	20 mm					
CAD overall width	29 mm					
CAD overall width CAD overall height	29 mm					
CAD overall width CAD overall height CAD overall depth	29 mm 43 mm					
CAD overall width CAD overall height CAD overall depth Net weight	29 mm 43 mm 0.016 kg					
CAD overall width CAD overall height CAD overall depth CAD overall depth Net weight Mechanical durability Station name	29 mm 43 mm					
CAD overall width CAD overall height CAD overall depth Net weight Mechanical durability	29 mm 43 mm 0.016 kg 500000 cycles XALD 15 cut-outs XALK 25 cut-outs M3 for <4 contacts using M6 for <2 contacts using transformer M10 for <2 contacts using MF1 for <2 contacts using MR1 for <2 contacts using	single blocks in front mounting with integral LED single blocks in front mounting with integral LED and g single blocks in front mounting with integral LED g single blocks in front mounting with integral LED g single blocks in rear mounting with integral LED single and double blocks in front mounting with integral				

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 CSA C22.2 No 14 EN/IEC 60947-5-1 JIS C8201-5-1 EN/IEC 60947-5-5 EN/IEC 60947-1 UL 508 JIS C8201-1		
Product certifications	CSA[RETURN]BV[RETURN]LROS (Lloyds register of shipping) [RETURN]DNV[RETURN]UL listed[RETURN]GL		
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	3.5 cm
Package 1 Width	5.4 cm
Package 1 Length	6 cm
Package 1 Weight	24 g
Unit Type of Package 2	S03
Number of Units in Package 2	200
Package 2 Height	30 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	5.286 kg

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) Declaration		
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	End Of Life Information		

Contractual warranty

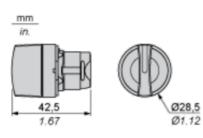
Warranty

18 months

Product data sheet Dimensions Drawings

ZB5AK1513

Dimensions

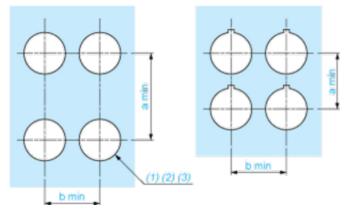




ZB5AK1513

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

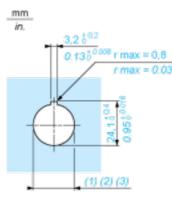
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (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.



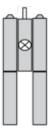
Mounting of Adapter (Socket) ZBZ01•

- 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•

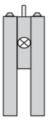
Dimensions An + 18.1 relate to the Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 holes for centring adapter ZBZ01•.

ZB5AK1513

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		