Product data sheet Characteristics

ZB5AK1853C0

Head for illuminated selector switch, Harmony XB5, grey bezel, orange handle, 22mm, universal LED, 3 positions, right to center



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	Plastic colour plated grey
Mounting diamete	0.87 in (22 mm)
Head type	Standard
Sale per indivisible quantity	1
Shape of signaling unit head	Round
Type of operator	Right to centre spring return
Operator profile	Orange standard handle
Operator position information	3 positions +/- 45°

Complementary

Device presentation	Basic element
	M6 2 single front mounting integral LED M6 2 single front mounting integral LED and transformer M10 2 single front mounting integral LED MF1 2 single front mounting integral LED MR1 2 single rear mounting integral LED M4 4 single and double front mounting integral LED
Station name Electrical composition code	XALD 15 cut-outs XALK 25 cut-outs M3 4 single front mounting integral LED
Mechanical durability	500000 cycles
Net Weight	0.04 lb(US) (0.016 kg)
CAD overall depth	1.69 in (43 mm)
CAD overall height	1.14 in (29 mm)
CAD overall width	1.14 in (29 mm)
Complementary	

Environment

TH
-40158 °F (-4070 °C)
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Class II IEC 60536
IP66 IEC 60529 IP67
NEMA 13 NEMA 4X
1015.26 psi (7000000 Pa) 131 °F (55 °C) 0.1 m
IK04 conforming to IEC 50102

Standards	CSA C22.2 No 14				
	EN/IEC 60947-5-5				
	EN/IEC 60947-1				
	EN/IEC 60947-5-1				
	EN/IEC 60947-5-4				
	UL 508				
	JIS C8201-5-1				
	JIS C8201-1				
Product Certifications	UL Listed[RETURN]LROS (Lloyds register of shipping)				
	[RETURN]CSA[RETURN]DNV[RETURN]GL[RETURN]BV				
Vibration resistance	5 gn 2500 Hz)IEC 60068-2-6				
Shock resistance	30 gn 18 ms) half sine wave acceleration IEC 60068-2-27				
	50 gn 11 ms) half sine wave acceleration IEC 60068-2-27				

Ordering and shipping details

Category	US10CS222467	
Discount Schedule	0CS2	
GTIN	3606489767846	
Returnability	No	
Country of origin	FR	

Packing Units

Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	1.65 in (4.2 cm)	
Package 1 Width	1.30 in (3.3 cm)	
Package 1 Length	2.05 in (5.2 cm)	
Package 1 Weight	0.60 oz (17.0 g)	

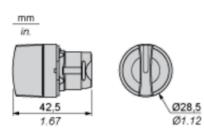
Offer Sustainability

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			
REACh Regulation	REACh Declaration			
REACh free of SVHC	Yes			
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) CEU RoHS Declaration			
Toxic heavy metal free	Yes			
Mercury free	Yes			
China RoHS Regulation	China RoHS Declaration			
RoHS exemption information				

Product data sheet Dimensions Drawings

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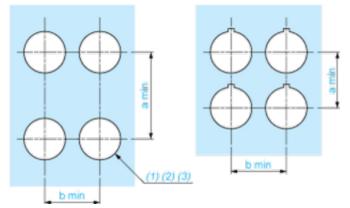
Dimensions



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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



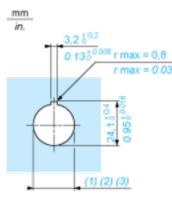
(1) Diameter on finished panel or support

(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

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.



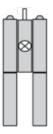
Mounting of Adapter (Socket) ZBZ01•

- 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•

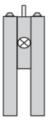
Dimensions An + 18.1 relate to the Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 holes for centring adapter ZBZ01•.

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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		