ZB5AK1253C0

Head for illuminated selector switch, Harmony XB5, grey bezel, orange handle, 22mm, universal LED, 2 positions



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	Stay put
Operator profile	Orange standard handle
Operator position information	2 positions 90°

Complementary

CAD overall width	1.14 in (29 mm)	
CAD overall height	1.14 in (29 mm)	
CAD overall depth	1.69 in (43 mm)	
Net Weight	0.04 lb(US) (0.016 kg)	
Mechanical durability	1000000 cycles	
Station name	XALD 15 cut-outs XALK 25 cut-outs	
Electrical composition code	M3 4 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	
Device presentation	Basic element	

Environment

Protective treatment	TH		
Ambient Air Temperature for Storage	-40158 °F (-4070 °C)		
Ambient air temperature for operation	-40158 °F (-4070 °C)		
Overvoltage category	Class II IEC 60536		
IP degree of protection	IP66 IEC 60529 IP67		
NEMA degree of protection	NEMA 13 NEMA 4X		
Resistance to high pressure washer	1015.26 psi (7000000 Pa) 131 °F (55 °C) 0.1 m		
IK degree of protection	IK04 conforming to IEC 50102		

Standards	EN/IEC 60947-5-5
	EN/IEC 60947-1
	JIS C8201-5-1
	EN/IEC 60947-5-1
	CSA C22.2 No 14
	EN/IEC 60947-5-4
	UL 508
	JIS C8201-1
Product Certifications	BV[RETURN]CSA[RETURN]UL Listed[RETURN]DNV[RETURN]LROS (Lloyds register of shipping)[RETURN]GL
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	3606489767242	
Returnability	No	
Country of origin	FR	

Packing Units

PCE	
1	
1.65 in (4.2 cm)	
1.30 in (3.3 cm)	
2.05 in (5.2 cm)	
0.85 oz (24.0 g)	
	1 1.65 in (4.2 cm) 1.30 in (3.3 cm) 2.05 in (5.2 cm)

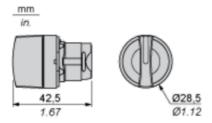
Offer Sustainability

onor odotamasinty	
REACh Regulation	REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EV EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	[™] China RoHS Declaration
RoHS exemption information	₽¥Yes

Product data sheet Dimensions Drawings

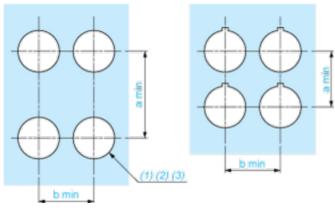
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Dimensions



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

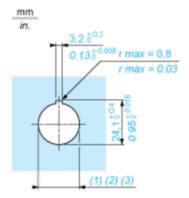
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (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

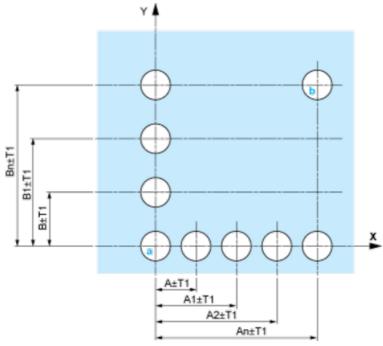
Detail of Lug Recess



- (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)

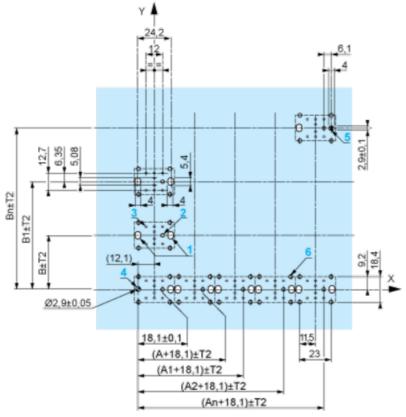


A: 30 mm min. / 1.18 in. min.

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:
 - $\circ \quad$ every 90 mm / 3.54 in. horizontally (X), and 120 mm / 4.72 in. vertically (Y).
 - o 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.



- (1) Head ZB5AD•
- (2) Panel
- (2) Nut

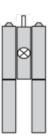
Mounting of Adapter (Socket) ZBZ01•

- 1 2 elongated holes for ZBZ006 screw access
- 2 1 hole Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 for centring adapter ZBZ01•
- 3 8 × 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 \pm 0.05 / 0.09 in. \pm 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 2-position Selector Switch Body

Position 315°



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

Position 45°



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