ZB5AK1563

Head for illuminated selector switch, Harmony XB5, XB4, blue Ø22 mm 3 position spring return





Main

Range of Product	Harmony XB5
Product or Component Type	Head for illuminated selector switch
Product Compatibility	Integral LED
Device short name	ZB5
Bezel material	Dark grey plastic
Mounting diameter	0.87 in (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	Blue standard handle
Operator position information	3 positions +/- 45°

Complementary

Device presentation	Basic element
	M4 4 single and double front mounting integral LED
	MR1 2 single rear mounting integral LED
	MF1 2 single front mounting integral LED
	M10 2 single front mounting integral LED
F 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	M6 2 single front mounting integral LED and transformer
Electrical composition code	M3 4 single front mounting integral LED
	XALK 25 cut-outs
Station name	XALD 15 cut-outs
Mechanical durability	1000000 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)

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 IP69 IP69K	
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	IK06 IEC 50102	

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

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Category	22467-PUSHBUTTONS,22MM(PLASTIC) NEW	
Discount Schedule	CS2	
GTIN	3389110906240	
Nbr. of units in pkg.	1	
Package weight(Lbs)	0.81 oz (23.0 g)	
Returnability	No	
Country of origin	FR	

Packing Units

•		
Unit Type of Package 1	PCE	
Package 1 Height	1.38 in (3.5 cm)	
Package 1 width	1.77 in (4.5 cm)	
Package 1 Length	1.97 in (5 cm)	
Unit Type of Package 2	S02	
Number of Units in Package 2	50	
Package 2 Weight	3.07 lb(US) (1.394 kg)	
Package 2 Height	5.91 in (15 cm)	
Package 2 width	11.81 in (30 cm)	
Package 2 Length	15.75 in (40 cm)	

Offer Sustainability

Office Odstalliability			
Sustainable offer status	Green Premium product		
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)		
Toxic heavy metal free	Yes		
Mercury free	Yes		
RoHS exemption information	₽¥Yes		
China RoHS Regulation	China RoHS Declaration		
Environmental Disclosure	Product Environmental Profile		
Circularity Profile End Of Life Information			

Contractual warranty

Warranty	18 months

Product data sheet Dimensions Drawings

ZB5AK1563

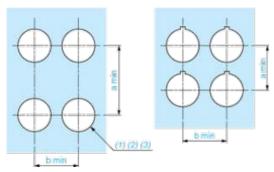
Dimensions





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

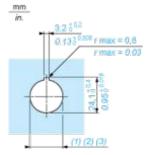
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (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

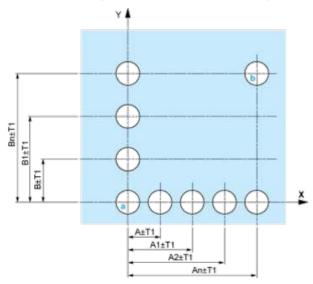
Detail of Lug Recess



- (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)

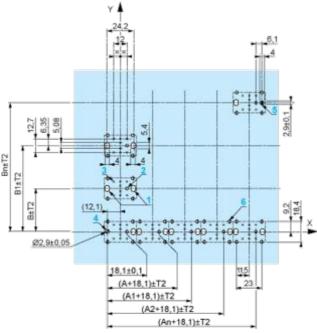


A: 30 mm min. / 1.18 in. min.

B: 40 mm min. / 1.57 in. min.

Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

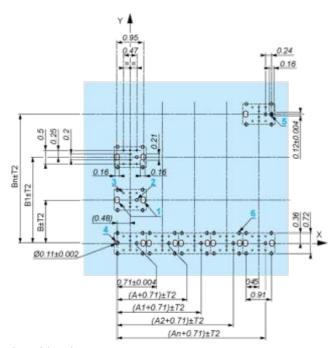
Dimensions in mm



A: 30 mm min.

B: 40 mm min.

Dimensions in in.



A: 1.18 in. min. B: 1.57 in. min.

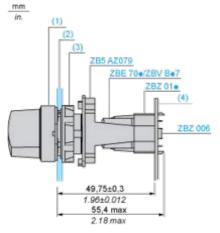
General Tolerances of the Panel and Printed Circuit Board

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 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
- (4) Printed circuit board

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•
- 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•.

Product data sheet Technical Description

ZB5AK1563

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		8	
Bottom					
Location		Left	Right		
State		1	0		
Contacts	N/O		closed	open	
N/C	-	open	closed		

Position 0°



Push	Position	Тор		A	
				\otimes	
Bottom	\triangle	Δ		<u> </u>	
Location		Left	Right		
State		0	0		
Contacts	N/O		open	open	
N/C		closed	closed		•

Position 45°



Push	Position	Тор		8	
Bottom					
Location		Left	Right		
State		0	1		
Contacts	N/O		open	closed	
N/C		closed	open		-