Specifications



Head for illuminated selector switch, Harmony XB5, Harmony XALF, grey plastic, green handle, 22mm, universal LED, 2 positions

ZB5AK1233

Product availability : Stock - Normally stocked in distribution facility

Main	
Range of Product	Harmony XB5 Harmony XALF
Product or Component Type	Head for illuminated selector switch
Product Compatibility	Universal 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	stay put
Operator profile	Green 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

Device presentation

Basic element

* Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

M4 4 single and double front mounting integral LED

M10 2 single front mounting integral LED MF1 2 single front mounting integral LED MR1 2 single rear mounting integral LED

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Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Environment

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

Category	22467-PUSHBUTTONS,22MM(PLASTIC) NEW
Discount Schedule	CS2
GTIN	3389110906066
Returnability	Yes
Country of origin	FR

Packing Units

J	
Unit Type of Package 1	Db
Number of Units in Package 1	1
Package 1 Height	2.24 in (5.7 cm)
Package 1 Width	2.05 in (5.2 cm)
Package 1 Length	1.30 in (3.3 cm)
Package 1 Weight	0.81 oz (23 g)
Unit Type of Package 2	Doboz
Number of Units in Package 2	200
Package 2 Height	11.81 in (30 cm)
Package 2 Width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)

REACh free of SVHC	Yes
REACh Regulation	REACh Declaration
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 P65Warnings website.
Sustainable offer status	Green Premium product
Offer Sustainability	
Package 3 Weight	115.97 lb(US) (52.604 kg)
Package 3 Length	23.62 in (60 cm)
Package 3 Width	31.50 in (80 cm)
Package 3 Height	30.31 in (77 cm)
Number of Units in Package 3	1600
Unit Type of Package 3	P06
Package 2 Weight	11.57 lb(US) (5.249 kg)

NEAGH HEE OF SVITO	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration				
EU RoHS Directive					
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				

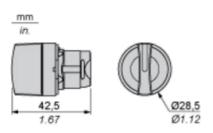
Contractual warranty

Warranty

18 months

Dimensions Drawings

Dimensions

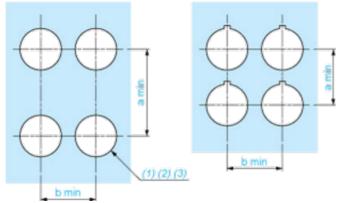


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Mounting and Clearance

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



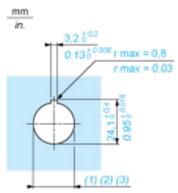
(1) Diameter on finished panel or support

(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. $_{0}^{+0.016}$)

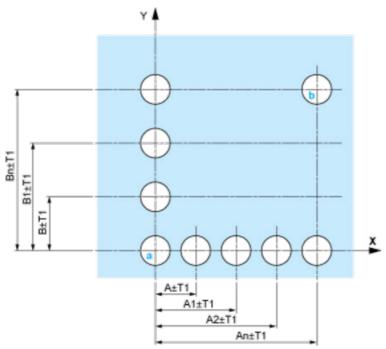
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Mounting and Clearance

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

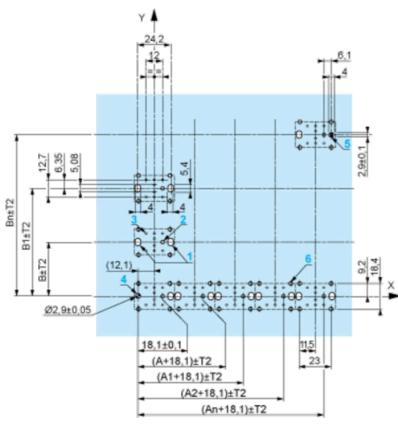
Panel Cut-outs (Viewed from Installer's Side)



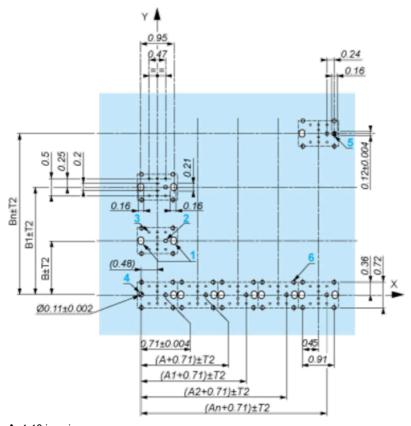
A: 30 mm min. / 1.18 in. min.

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.





B: 1.57 in. min.

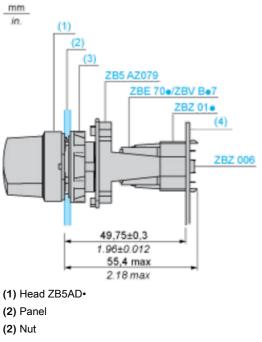
General Tolerances of the Panel and Printed Circuit Board

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).
 - 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.



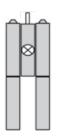
Mounting of Adapter (Socket) ZBZ01•

- 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•
- 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+.

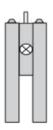
Technical Description

Electrical Composition Corresponding to Code M3



Technical Description

Electrical Composition Corresponding to Code M4



Technical Description

Electrical Composition Corresponding to Codes M6 and P2



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Technical Description

Electrical Composition Corresponding to Codes M5, M10, MF1, MR1 and MF2



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Technical Description

Legend

Single contact



Double contact



Light block



Possible location



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Technical Description

Sequence of Contacts Fitted to 2-position Selector Switch Body

Position 315°



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

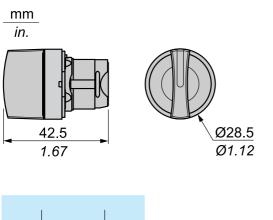
Position 45°



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

Technical Illustration

Dimensions



			a (mm)	a (in.)	b (mm)	b (in.)
			40	1.57	30	1.18
	ZBE••••• ZBE•••••3	ZBV•••• ZBV••••3	45	1.77	32	1.26
≥ b	ZBE••••4	ZBV••••4	40	1.57	30	1.18
$\begin{array}{c c} 3.2_{0}^{+0,2} \\ \hline 0.13_{0}^{+0.008} \\ \leq R \ 0.8 \\ \leq R \ 0.03 \end{array}$	ZBE••••5	ZBV•••5	50	1.97	30	1.18
24.1 ^{+0,4} 0.95 ₀ 0.016	ZBE••••9	ZBV•••9	40	1.57	30	1.18
Ø 22.5 Ø 0.89	ZBRT•	ZBRV1	40	1.57	30	1.18

Recommended replacement(s)

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