Product data sheet Characteristics

ZB5AK1353

Head for illuminated selector switch, Harmony XB5, XB4, orange Ø22 mm 3 position stay put





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	Stay put
Operator profile	Orange 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			
	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



EN/IEC 60947-5-5
CSA C22.2 No 14
EN/IEC 60947-5-4
JIS C8201-5-1
EN/IEC 60947-1
EN/IEC 60947-5-1
UL 508
JIS C8201-1
CSA
DNV
GL
LROS (Lloyds register of shipping)
BV
UL Listed
5 gn 2500 Hz)IEC 60068-2-6
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

22467 - PUSHBUTTONS,22MM(PLASTIC) NEW
CS2
3389110906134
1
0.81 oz (23 g)
No
FR

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	1.77 in (4.5 cm)
Package 1 width	2.05 in (5.2 cm)
Package 1 Length	1.30 in (3.3 cm)
Unit Type of Package 2	BB1
Number of Units in Package 2	5
Package 2 Weight	4.06 oz (115 g)
Package 2 Height	1.77 in (4.5 cm)
Package 2 width	1.30 in (3.3 cm)
Package 2 Length	10.43 in (26.5 cm)
Unit Type of Package 3	S02
Number of Units in Package 3	100
Package 3 Weight	5.97 lb(US) (2.71 kg)
Package 3 Height	5.91 in (15 cm)
Package 3 width	11.81 in (30 cm)
Package 3 Length	15.75 in (40 cm)

Offer Sustainability

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) delta Bohs Declaration				
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	Trad Of Life Information

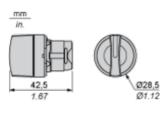
End Of Life Information

Contractual warranty

Warranty

18 months

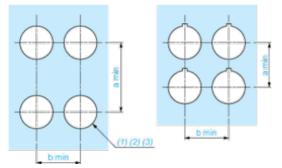
Dimensions



ZB5AK1353

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



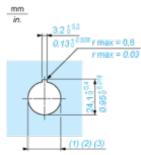
(1) Diameter on finished panel or support

(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



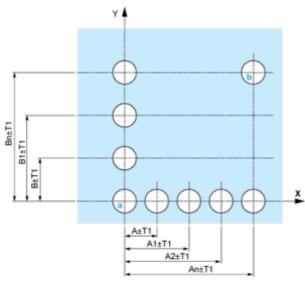
(1) Diameter on finished panel or support

(2) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.

(3) \emptyset 22.5 mm recommended (\emptyset 22.3 $_0$ ^{+0.4}) / \emptyset 0.89 in. recommended (\emptyset 0.88 in. $_0$ ^{+0.016})

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

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

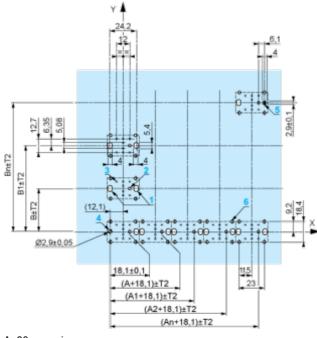


A: 30 mm min. / 1.18 in. min.

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

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

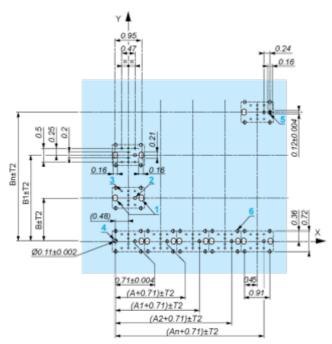
Dimensions in mm



A: 30 mm min.

B: 40 mm min.

Dimensions in in.





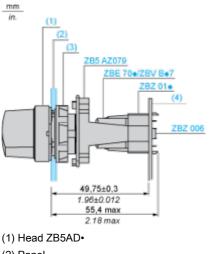
General Tolerances of the Panel and Printed Circuit Board

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.
- ٠ Cut-out diameter: 22.4 mm ± 0.1 / 0.88 in. ± 0.004
- ٠ 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.



- (2) Panel
- (2) Nut
- (4) Printed circuit board

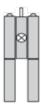
Mounting of Adapter (Socket) ZBZ01•

- 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•
- 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 \pm 0.05 / 0.09 in. \pm 0.002 holes for centring adapter ZBZ01+.

ZB5AK1353

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°

315°

<u> </u>					
Push	Position	Тор		$\overset{\frown}{\boxtimes}$	
Bottom		\bigtriangleup			
Location		Left	Right		
State		1	0		
Contacts	N/O		closed	open	
N/C		open	closed		

Position 0°



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

Position 45°



<u> </u>	~				
Push	Position	Тор			
Bottom	\bigtriangleup				
Location		Left	Right		
State		0	1		
Contacts	N/O		open	closed	
N/C		closed	open		