Product data sheet Characteristics

ZB5AK1243

Harmony XB5, Illuminated selector switch head, plastic, red, Ø22, integral LED, 2 positions, 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	Red standard handle
Operator position information	2 positions 90°

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

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

22467 - PUSHBUTTONS,22MM(PLASTIC) NEW		
CS2		
3389110906073		
1		
0.85 oz (24 g)		
Yes		
FR		
	CS2 3389110906073 1 0.85 oz (24 g) Yes	

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	1.30 in (3.3 cm)
Package 1 width	2.05 in (5.2 cm)
Package 1 Length	2.17 in (5.5 cm)
Unit Type of Package 2	BB1
Number of Units in Package 2	5
Package 2 Weight	4.23 oz (120 g)
Package 2 Height	2.17 in (5.5 cm)
Package 2 width	10.43 in (26.5 cm)
Package 2 Length	1.30 in (3.3 cm)
Unit Type of Package 3	S02
Number of Units in Package 3	100
Package 3 Weight	5.88 lb(US) (2.666 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 Botton 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

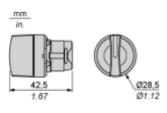
End Of Life Information

Contractual warranty

Warranty

18 months

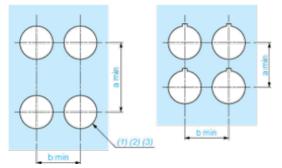
Dimensions



ZB5AK1243

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



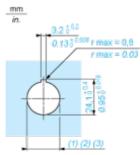
(1) Diameter on finished panel or support

(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



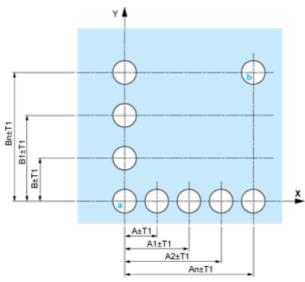
(1) Diameter on finished panel or support

(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)

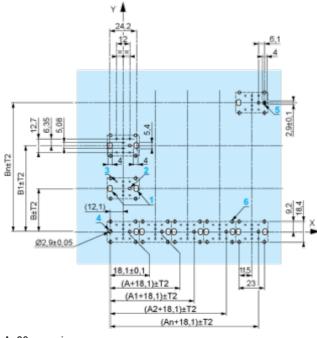


A: 30 mm min. / 1.18 in. min.

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

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

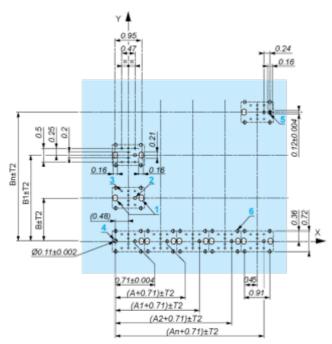
Dimensions in mm



A: 30 mm min.

B: 40 mm min.

Dimensions in in.





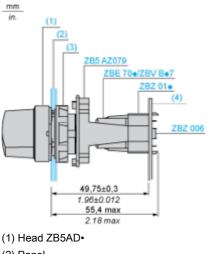
General Tolerances of the Panel and Printed Circuit Board

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

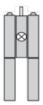
Mounting of Adapter (Socket) ZBZ01•

- 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+.

ZB5AK1243

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°

315°

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					
Location		Left	Right		
State		1	1		
Contacts	N/O		closed	closed	
N/C		open	open		