Specification





Projecting push button head 40mm, Harmony XB5, plastic, red, 22mm, spring return, marked O

ZB5AL432

Product availability: Stock - Normally stocked in distribution facility

Price*: 18.60 USD

Main

Range of Product	Harmony XB5	
Product or Component Type	Head for non-illuminated push-button	
Device short name	ZB5	
Bezel material	Dark grey plastic	
Mounting diameter	0.9 in (22 mm)	
Head type	Standard	
Sale per indivisible quantity	1	
Shape of signaling unit head	Round	
Type of operator	spring return	
Operator profile	Red projecting, O white)	

Complementary

CAD overall width	1.1 in (29 mm)		
CAD overall height	1.1 in (29 mm)		
CAD overall depth	1.3 in (33 mm)		
Net Weight	0.042 lb(US) (0.019 kg)		
Mechanical durability	10000000 cycles		
Station name	XALD 15 cut-outs XALK 25 cut-outs		
Electrical composition code	C1 9 single front mounting C2 9 single and double front mounting C11 3 single front mounting C15 1 single front mounting SF1 3 single front mounting SR1 3 single rear mounting		
device presentation	Basic element		

Environment

protective treatment	TH
Ambient Air Temperature for Storage	-40.0000000000158.0000000000 °F (-4070 °C)
Ambient Air Temperature for Operation	-40.0000000000158.00000000000 °F (-4070 °C)
Overvoltage category	Class II IEC 60536

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

IP degree of protection	IP66 IEC 60529 IP67		
	IP69 IP69K		
NEMA degree of protection	NEMA 13 NEMA 4X		
Resistance to high pressure washer	1015.3 psi (7000000 Pa) 131.00000000000 °F (55 °C) 0.1 m		
K degree of protection IK03 conforming to IEC 50102			
Standards	CSA C22.2 No 14 UL 508 IEC 60947-5-1 JIS C8201-5-1 IEC 60947-1 IEC 60947-5-4 JIS C8201-1		
Product Certifications	BV LROS (Lloyds register of shipping) DNV CSA GL UL Listed		
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		
Vibration resistance	5 gn 2500 Hz)IEC 60068-2-6		

Ordering and shipping details

Category	US10CS222467	
Discount Schedule	0CS2	
GTIN	3389110906462	
Returnability	Yes	
Country of origin	FR	

Packing Units

Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	1.693 in (4.300 cm)	
Package 1 Width	1.378 in (3.500 cm)	
Package 1 Length	2.126 in (5.400 cm)	
Package 1 Weight	0.635 oz (18.000 g)	
Unit Type of Package 2	S03	
Number of Units in Package 2	300	
Package 2 Height	11.811 in (30.000 cm)	
Package 2 Width	11.811 in (30.000 cm)	
Package 2 Length	15.748 in (40.000 cm)	
Package 2 Weight	12.979 lb(US) (5.887 kg)	

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance

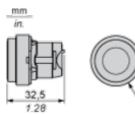
	Reach Free Of Svhc	
②	Mercury Free	
⊘	Rohs Exemption Information	Yes

Certifications & Standards

Reach Regulation	REACh Declaration			
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)			
China Rohs Regulation	China RoHS declaration			
Environmental Disclosure	Product Environmental Profile			
Circularity Profile	End of Life Information			
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			

Dimensions Drawings

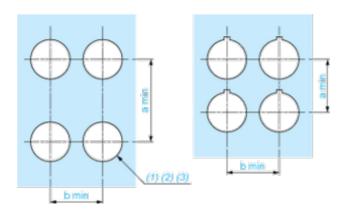
Dimensions



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. $_0^{+0.016}$)

				0
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

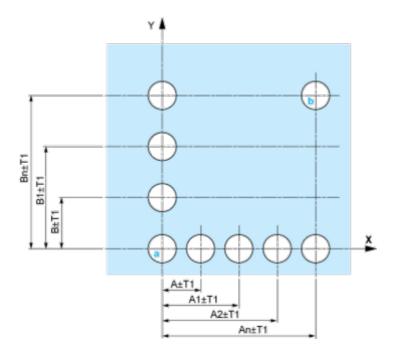
Detail of Lug Recess



- (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

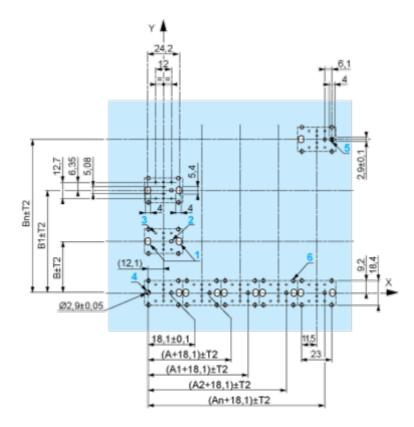
Panel Cut-outs (Viewed from Installer's Side)



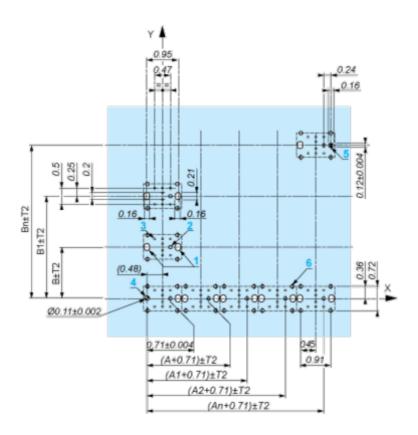
A: 30 mm min. / 1.18 in. min. **B:** 40 mm min. / 1.57 in. min.

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.

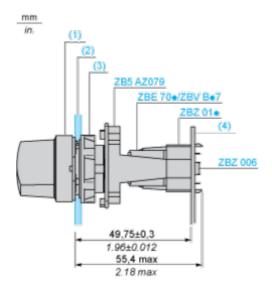
General Tolerances of the Panel and Printed Circuit Board

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 ${\bf a}$ and ${\bf b}$ are diagonally opposed and must align with those marked ${\bf 4}$ and ${\bf 5}$.



ZB5AL432

- (1) Head ZB5AD•
- (2) Panel
- (2) Nut
- (4) Printed circuit board

Mounting of Adapter (Socket) ZBZ01•

- 1 2 elongated holes for ZBZ006 screw access
- $_{\bullet}$ 2 1 hole Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 for centring adapter ZBZ01 $\!\!^{\bullet}$
- 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•.

ZB5AL432

Technical Description

Electrical Composition Corresponding to Code C1



Electrical Composition Corresponding to Code C2



ZB5AL432

Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1



Electrical Composition Corresponding to Code C15

1 N/O



1 N/C



1 N/O + N/C or 1 N/O + N/O or 1 N/C + N/C



Legend

Single contact



Double contact



Light block



Possible location

