Specification





Illuminated emergency stop switching off head, Harmony XB5, plastic, red mushroom 40mm, 22mm, trigger latching push pull, with state indicator

ZB5AT8643M

Product availability: Stock - Normally stocked in distribution facility

Price*: 124.00 USD

Main

Range Of Product	Harmony XALF Harmony XB5	
Product Or Component Type	Head for illuminated emergency stop push-button	
Device Short Name	ZB5	
Bezel Material	Dark grey plastic	
Head Type	Standard	
Mounting Diameter	0.89 in (22.5 mm)	
Sale Per Indivisible Quantity	1	
Shape Of Signaling Unit Head Round		
Type Of Operator	trigger action and mechanical latching with mechanical state indicator	
Reset	Push-pull	
Operator Profile	Red mushroom Ø 40 mm, unmarked	
Device Presentation	Basic element	

Complementary

Cad Overall Width	1.57 in (40 mm)	
Cad Overall Height	1.57 in (40 mm)	
Cad Overall Depth	2.32 in (59 mm)	
Net Weight	0.07 lb(US) (0.034 kg)	
Mechanical Durability	300000 cycles	
Station Name	XALD 1 cut-out XALK 1 cut-out	
Electrical Composition Code	M6 2 single front mounting integral LED and transformer M10 2 single front mounting integral LED MF1 2 single front mounting integral LED MR1 2 single rear mounting integral LED	
Product Compatibility	Integral LED	
Compatibility Code	ZB5	

Environment

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

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	IP54 IEC 60529
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	IK05 conforming to IEC 50102
Standards	GB 14048.5 UL 508 ISO 13850 IEC 60204-1 CSA C22.2 No 14 IEC 60947-1 JIS C8201-5-1 IEC 60947-5-4 IEC 60947-5-1 JIS C8201-1
Product Certifications	CSA BV LROS (Lloyds register of shipping) DNV GL UL Listed
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	US10CS222467
Discount Schedule	0CS2
Gtin	3389119003766
Returnability	Yes
Country Of Origin	CZ

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2.09 in (5.3 cm)
Package 1 Width	1.73 in (4.4 cm)
Package 1 Length	3.23 in (8.2 cm)
Package 1 Weight	1.59 oz (45.0 g)
Unit Type Of Package 2	S02
Number Of Units In Package 2	42
Package 2 Height	5.91 in (15.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	4.87 lb(US) (2.208 kg)

Unit Type Of Package 3	P06
Number Of Units In Package 3	672
Package 3 Height	30.31 in (77.0 cm)
Package 3 Width	31.50 in (80.0 cm)
Package 3 Length	23.62 in (60.0 cm)
Package 3 Weight	96.34 lb(US) (43.7 kg)

Contractual warranty

Warranty 18 months



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Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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Guide to assess a product's sustainability >



RoHS/REACh

Well-being performance

⊘	Reach Free Of Svhc	
⊘	Toxic Heavy Metal Free	
⊘	Mercury Free	
⊘	Rohs Exemption Information	Yes

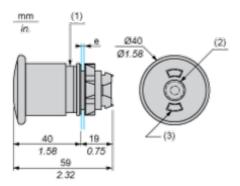
Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
China Rohs Regulation	China RoHS 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 www.P65Warnings.ca.gov

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Dimensions Drawings

Dimensions



e: panel thickness: 1 to 6 mm / 0.04 to 0.24 in.

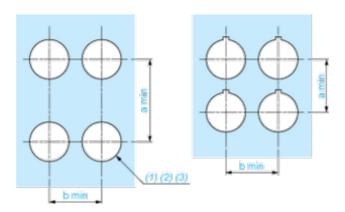
- (1) 360° "red/green" mechanical indicator
- (2) Pilot light
- (3) "Red/green" mechanical indicator

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Mounting and Clearance

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

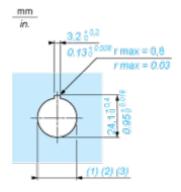
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (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

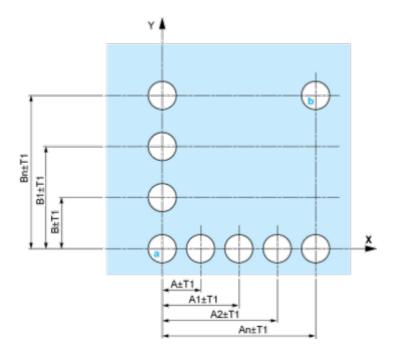
Detail of Lug Recess



- (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. $_0^{+0.016}$)

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

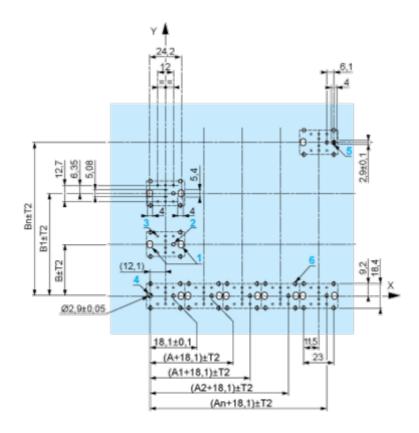
Panel Cut-outs (Viewed from Installer's Side)



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

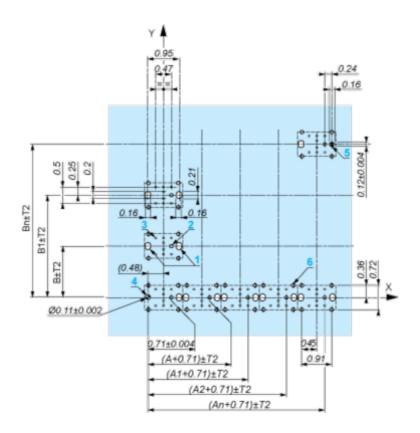
Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

Dimensions in mm



A: 30 mm min. B: 40 mm min. Dimensions in in.

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

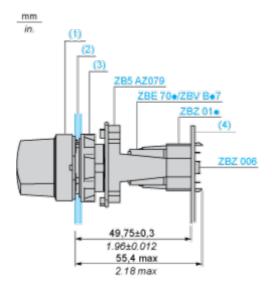
General Tolerances of the Panel and Printed Circuit Board

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 ${\bf 5}$.



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- (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 ± 0.05 / 0.09 in. ± 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•.

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Technical Description

Electrical Composition Corresponding to Codes M6 and P2



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



20	n	C

Single contact



Double contact



Light block



Possible location

