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

lange of Product Harmony XALF Harmony XB5			
oduct or Component Type Head for illuminated emergency stop push-button			
Device short name	ZB5		
Bezel material Dark grey plastic			
Head type	Standard		
Mounting diameter	0.9 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	1.6 in (40 mm)	
CAD overall height	1.6 in (40 mm)	
CAD overall depth	2.3 in (59 mm)	
Net Weight	Veight 0.075 lb(US) (0.034 kg)	
Mechanical durability	sility 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 TH		
Ambient Air Temperature for Storage	-40.0000000000158.0000000000 °F (-4070 °C)	
Ambient Air Temperature for Operation	-40.0000000000158.0000000000 °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	1015.3 psi (7000000 Pa) 131.00000000000 °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	1.7 in (4.4 cm)
Package 1 Length	3.2 in (8.2 cm)
Package 1 Weight	1.6 oz (45.0 g)
Unit Type of Package 2	S02
Number of Units in Package 2	42
Package 2 Height	5.9 in (15.0 cm)
Package 2 Width	11.8 in (30.0 cm)
Package 2 Length	15.7 in (40.0 cm)
Package 2 Weight	4.868 lb(US) (2.208 kg)

Unit Type of Package 3	P06
Number of Units in Package 3	672
Package 3 Height	30.3 in (77.0 cm)
Package 3 Width	31.5 in (80.0 cm)
Package 3 Length	23.6 in (60.0 cm)
Package 3 Weight	96.3 lb(US) (43.7 kg)

# **Contractual warranty**

Warranty 18 months



**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**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 >





Transparency RoHS/REACh

# Well-being performance

<b>Ø</b>	Reach Free Of Svhc	
<b>Ø</b>	Toxic Heavy Metal Free	
<b>⊘</b>	Mercury Free	
<b>⊘</b>	Rohs Exemption Information	Yes

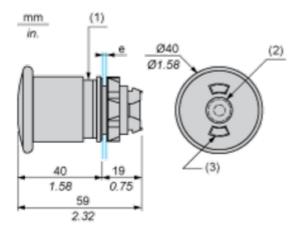
## **Certifications & Standards**

Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)		
	EU RoHS Declaration		
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		

Sep 3, 2024

## **Dimensions Drawings**

#### **Dimensions**



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

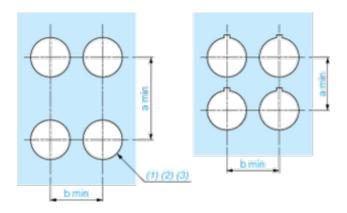
- (1) 360° "red/green" mechanical indicator
- (2) Pilot light
- (3) "Red/green" mechanical indicator

## **ZB5AT8643M**

#### Mounting and Clearance

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

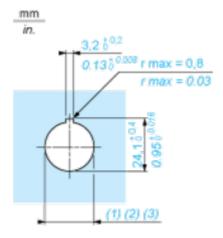
#### Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (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

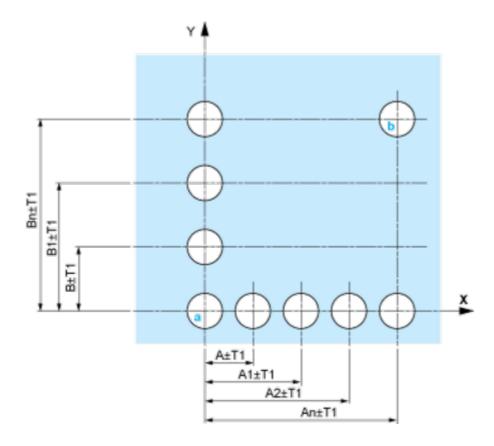
#### **Detail of Lug Recess**



- (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

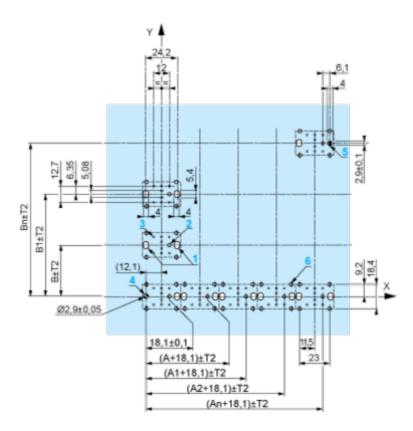
#### Panel Cut-outs (Viewed from Installer's Side)



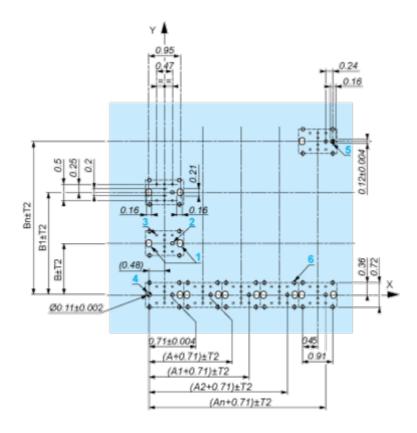
**A:** 30 mm min. / 1.18 in. min. **B:** 40 mm min. / 1.57 in. min.

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

Dimensions in mm



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



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

#### General Tolerances of the Panel and Printed Circuit Board

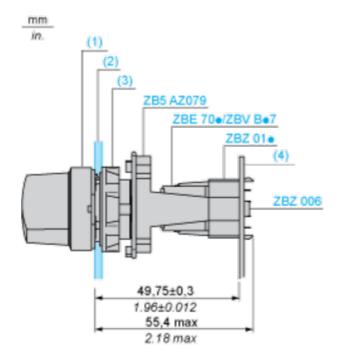
The cumulative tolerance must not exceed 0.3 mm / 0.012 in.: T1 + T2 = 0.3 mm max.

#### **ZB5AT8643M**

#### **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 a and b are diagonally opposed and must align with those marked 4 and 5.



- (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 ± 0.05 / 0.09 in. ± 0.002 holes for centring adapter ZBZ01•.

# **ZB5AT8643M**

**Technical Description** 

**Electrical Composition Corresponding to Codes M6 and P2** 



# **ZB5AT8643M**

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



## Legend

Single contact



Double contact



Light block



Possible location

