## Product data sheet Characteristics

# ZB5AT8643M

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



	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	0.87 in (22 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 $\emptyset$ 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	500000 cycles				
Station name	XALD 1 cut-out XALK 1 cut-out				
Electrical composition code	M10 2 single front mount MF1 2 single front mount	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					
Protective treatment	TH				
Ambient Air Temperature for Storage	-40158 °F (-4070 °C				
Ambient Air Temperature for Operation	-40…158 °F (-40…70 °C				
Overvoltage category	Class II IEC 60536				
IP degree of protection	IP54 IEC 60529				
NEMA degree of protection	NEMA 13 NEMA 4X				

1015.26 psi (7000000 Pa) 131 °F (55 °C) 0.1 m

IK05 IEC 50102

Resistance to high pressure washer

IK degree of protection

Standards	EN 81-1	
	GB 14048.5	
	UL 508	
	EN/ISO 13850	
	EN/IEC 60204-1	
	CSA C22.2 No 14	
	EN/IEC 60947-1	
	JIS C8201-5-1	
	EN/IEC 60947-5-4	
	EN/IEC 60947-5-1	
Product Certifications	CSA[RETURN]BV[RETURN]LROS (Lloyds register of shipping) [RETURN]DNV[RETURN]GL[RETURN]UL Listed	
/ibration resistance 5 gn 2500 Hz)IEC 60068-2-6		
nock 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	22467-PUSHBUTTONS,22MM(PLASTIC) NEW
Discount Schedule	CS2
GTIN	3389119003766
Returnability	Yes
Country of origin	CZ

## Packing Units

<b>J</b>	
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)

## Offer Sustainability

WARNING: This product can suppose you to chemicals including. Di isodagul		
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		
Pro-active compliance (Product out of EU RoHS legal scope) delta Bode RoHS Declaration		
Yes		
Yes		
China RoHS Declaration		
₽¥Yes		

Environmental Disclosure	Product Environmental Profile	
Circularity Profile	Trad Of Life Information	

End Of Life Information

### Contractual warranty

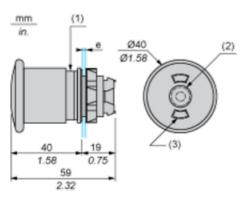
Warranty

18 months

Product data sheet Dimensions Drawings

# ZB5AT8643M

#### Dimensions



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

(1) 360° "red/green" mechanical indicator

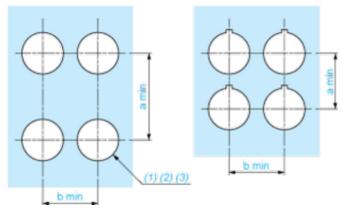
(2) Pilot light

(3) "Red/green" mechanical indicator

# ZB5AT8643M

### 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



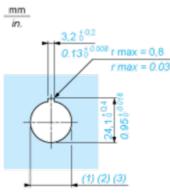
(1) Diameter on finished panel or support

(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**



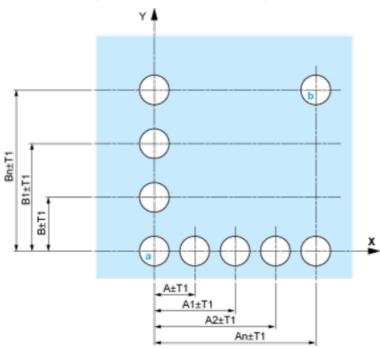
(1) Diameter on finished panel or support

(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)

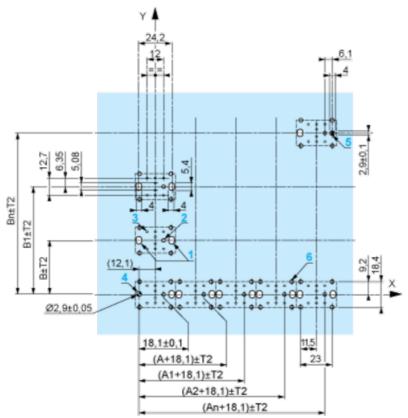


A: 30 mm min. / 1.18 in. min.

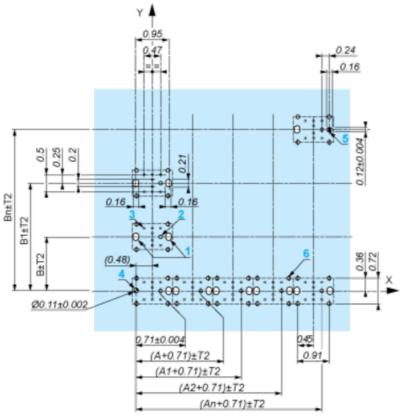
B: 40 mm min. / 1.57 in. min.

### 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.

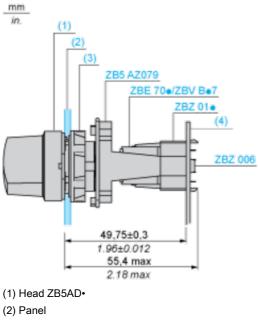
#### General Tolerances of the Panel and Printed Circuit Board

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

#### 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:
  - 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) Nut

#### (4) Printed circuit board

### Mounting of Adapter (Socket) ZBZ01•

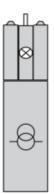
- 1 2 elongated holes for ZBZ006 screw access
- 2 1 hole Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 for centring adapter ZBZ01•
- 38 × Ø 1.2 mm / 0.05 in. holes
- 4 1 hole Ø 2.9 mm ± 0.05 / 0.11 in. ± 0.002, for aligning the printed circuit board (with cut-out marked a)
- 5 1 elongated hole for aligning the 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 ± 0.05 / 0.09 in. ± 0.002 holes for centring adapter ZBZ01•.

## Product data sheet Technical Description

# ZB5AT8643M

## 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