## **ZB5AS944**

## red Ø40 Emergency stop pushbutton head Ø22 trigger and latching key release



Main	
Range of product	Harmony XB5
Product or component type	Head for emergency stop pushbutton
Device short name	ZB5
Bezel material	Plastic
Mounting diameter	22 mm
Sale per indivisible quantity	1
Shape of signaling unit head	Round
Type of operator	Trigger action and mechanical latching
Reset	Key release
Operator profile	Red mushroom Ø 40 mm unmarked
Type of keylock	Ronis 455

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- Comprehensive		
CAD overall width	40 mm	
CAD overall height	40 mm	
CAD overall depth	79 mm	
Product weight	0.071 kg	
Resistance to high pressure washer	7000000 Pa at 55 °C,distance: 0.1 m	
Mechanical durability	300000 cycles	

Key withdrawal position

### **Environment**

Protective treatment	TH
Ambient air temperature for storage	-4070 °C
Ambient air temperature for operation	-2570 °C
Class of protection against electric shock	Class II conforming to IEC 60536
IP degree of protection	IP66 conforming to IEC 60529
NEMA degree of protection	NEMA 4X
	NEMA 13
IK degree of protection	IK03 conforming to IEC 50102
Standards	EN/IEC 60947-5-4
	EN/IEC 60947-5-1
	EN/IEC 60204-1
	EN/ISO 13850
	CSA C22-2 No 14
	EN/IEC 60947-1
	EN/IEC 60947-5-5
	JIS C 4520
	UL 508
Product certifications	DNV (Det Norske Veritas)
	GL
	RINA
	UL listed
	LROS (Lloyds register of shipping)
	CSA
	BV
Vibration resistance	5 gn (f = 2500 Hz) conforming to IEC 60068-2-6
Shock resistance	30 gn for 18 ms half sine wave acceleration conforming to IEC 60068-2-27
	50 gn for 11 ms half sine wave acceleration conforming to IEC 60068-2-27

# Product data sheet Dimensions Drawings

## **ZB5AS944**

Dimensions of Mushroom Heads for Emergency Stop, Trigge Turn to Release ZB5 AS834	per Action and Mechanical Latching Pushbuttons
ZB5 AS844	
Key Release ZB5 AS934	
ZB5 AS944	
ZB5 AS964	
ZB5 AS944D	

## Push-Pull with Pilot Light and Mechanical State Indicator ZB5 AT8643M

- 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



## Product data sheet Mounting and Clearance

## **ZB5AS944**

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

- Diameter on finished panel or support
- For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5 AZ902 is recommended.  $\varnothing$ 22.5 mm recommended ( $\varnothing$ 22.3  $_0$   $^{+0.4}$ ) /  $\varnothing$ 0.89 in. recommended ( $\varnothing$ 0.88 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
- For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5 AZ902 is recommended.  $\varnothing$ 22.5 mm recommended ( $\varnothing$ 22.3  $_0^{+0.4}$ ) /  $\varnothing$ 0.89 in. recommended ( $\varnothing$ 0.88 in.  $_0^{+0.016}$ )

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

Pan	el Cut-outs (Viewed from Installer's Side)
A:	30 mm min. / 1.18 in. min.
B:	40 mm min. / 1.57 in. min.
Prin	ted Circuit Board Cut-outs (Viewed from Electrical Block Side) ensions in mm
A:	30 mm min.
B:	40 mm min.

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 ZB4 BZ009: ± 2 30' (excluding cut-outs marked a and b).
- Tightening torque of screws ZBZ 006: 0.6 N.m. max.
- Allow for one ZB4 BZ079 fixing collar/pillar and its fixing screws:
  - o every 90 mm / 3.54 in. horizontally (X), and 120 mm / 4.72 in. vertically (Y).
  - o with each selector switch head (ZB5 AD•, ZB5 AJ•, ZB5 AG•).

The fixing centers marked a and b are diagonally opposed and must align with those marked 4 and 5.

- (1) Head ZB5 AD•
- (2) Panel
- (2) Nut
- (4) Printed circuit board

### Mounting of Adapter (Socket) ZBZ 01•

- 1 2 elongated holes for ZBZ 006 screw access
- 2 1 hole Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 for centring adapter ZBZ 01•
- 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 ZBZ 01•

Dimensions An + 18.1 relate to the Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 holes for centring adapter ZBZ 01•.				