### **ZB4BS844**

Harmony, 22mm Push Button, emergency stop head, trigger and latching turn release, red, 40 mm mushroom, unmarked





### Main

Range of product	Harmony XB4
Product or component type	Head for emergency switching off push-button
Device short name	ZB4
Bezel material	Chromium plated metal
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
Reset	Turn to release
Operator profile	Red mushroom Ø 40 mm, unmarked
Head type	Standard

### Complementary

Device presentation	Basic element	
	C10 4 single and double front mounting	
	C15 for <1 contacts using single blocks in front mounting	
	C11 for <3 contacts using single blocks in front mounting	
·	C8 for <4 contacts using single and double blocks in front mounting	
Electrical composition code	C7 for <4 contacts using single blocks in front mounting	
Mechanical durability	300000 cycles	
Net Weight	0.16 lb(US) (0.073 kg)	
CAD overall depth	2.24 in (57 mm)	
CAD overall height	1.57 in (40 mm)	
CAD overall width	1.57 in (40 mm)	

### Environment

Protective treatment	TH	
Ambient air temperature for storage	-40158 °F (-4070 °C)	
Ambient air temperature for operation	-40158 °F (-4070 °C)	
Electrical shock protection class	Class I conforming to IEC 61140	
IP degree of protection	IP66 conforming to IEC 60529 IP69 IP69K	
NEMA degree of protection	NEMA 13 NEMA 4X NEMA 4 NEMA 12	
IK degree of protection	IK06 conforming to IEC 50102	

Standards	UL 508
	EN/IEC 60947-5-5
	CSA C22.2 No 14
	EN/IEC 60947-5-4
	JIS C8201-5-1
	EN/IEC 60947-1
	EN/IEC 60947-5-1
	EN/IEC 60204-1
	IEC 60364-5-53
	GB 14048.5
	EN/ISO 13850
	JIS C8201-1
Product certifications	RINA
	DNV
	BV
	CSA
	LROS (Lloyds register of shipping)
	UL Listed
	GL
Vibration resistance	5 gn (f= 2500 Hz) conforming to IEC 60068-2-6
Shock resistance	30 gn (duration = 18 ms) for half sine wave acceleration conforming to IEC
	60068-2-27
	50 gn (duration = 11 ms) for half sine wave acceleration conforming to IEC
	60068-2-27

### Ordering and shipping details

0 11 0		
Category	22468 - PUSHBUTTONS,22MM(METAL) NEW	
Discount Schedule	CS2	
GTIN	00785901354499	
Nbr. of units in pkg.	1	
Package weight(Lbs)	0.17 lb(US) (0.08 kg)	
Returnability	Yes	
Country of origin	CZ	

### Packing Units

· Goilling Grinto		
Unit Type of Package 1	PCE	
Package 1 Height	2.13 in (5.4 cm)	
Package 1 width	1.73 in (4.4 cm)	
Package 1 Length	3.46 in (8.8 cm)	
Unit Type of Package 2	S03	
Number of Units in Package 2	100	
Package 2 Weight	17.85 lb(US) (8.097 kg)	
Package 2 Height	11.81 in (30 cm)	
Package 2 width	11.81 in (30 cm)	
Package 2 Length	15.75 in (40 cm)	
Unit Type of Package 3	P06	
Number of Units in Package 3	800	
Package 3 Weight	165.36 lb(US) (75.004 kg)	
Package 3 Height	30.31 in (77 cm)	
Package 3 width	23.62 in (60 cm)	
Package 3 Length	31.50 in (80 cm)	

### Offer Sustainability

Sustainable offer status	Green Premium product	
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	
REACh Regulation	REACh Declaration	
REACh free of SVHC	Yes	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EEU RoHS Declaration	

Toxic heavy metal free	Yes	
Mercury free	Yes	
RoHS exemption information	₫Yes	
China RoHS Regulation	China RoHS Declaration	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	☐ End Of Life Information	

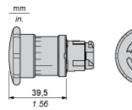
### Contractual warranty

Warranty	18 months

# Product data sheet Dimensions Drawings

# **ZB4BS844**

### **Dimensions**



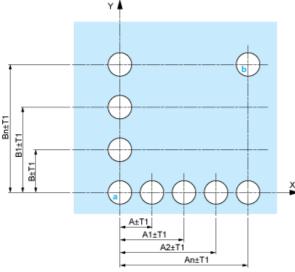
### Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

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

- (1) Diameter on finished panel or support
- (2) 40 mm min. / 1.57 in. min.
- (3) 30 mm min. / 1.18 in. min.
- (4) Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm  $_0$  +0.4 / 0.88 in.  $_0$  +0.016)
- (5) 45 mm min. / 1.78 in. min.
- (6) 32 mm min. / 1.26 in. min.

### Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

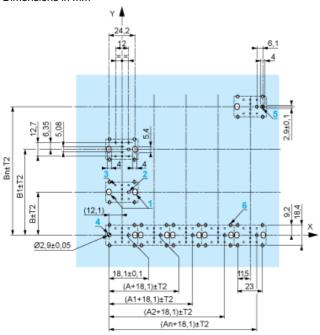
### Panel Cut-outs (Viewed from Installer's Side)



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

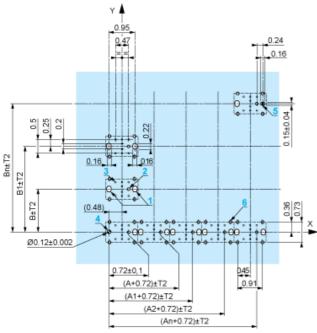
### Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

Dimensions in mm



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





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

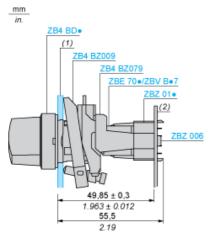
### General Tolerances of the Panel and Printed Circuit Board

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 (5.3 lbf.in) 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).
  - $\circ$   $\;$  with each selector switch head (ZB4 BD•, ZB4 BJ•, ZB4 BG•).

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



- (1) Panel
- (2) 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•.

# **ZB4BS844**

Electrical Composition Corresponding to Code C7
Electrical Compositions Corresponding to Code C8
Electrical Compositions Corresponding to Code C10
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

Cina	٦	contact
Sina	ıe	contact



Double contact



Light block



Possible location

