# **Product datasheet**





Head for triple headed push button, Harmony XB4, green flush/ red projecting/green flush pushbutton Ø22 mm with marking

ZB4BA731347



(!) Discontinued on: 15-Jun-2023



## Main

Range of product	Harmony XB4	
product or component type	Head for triple-headed push-button	
Device short name	ZB4	
Bezel material	Black metal	
Mounting diameter	22 mm	
Sale per indivisible quantity	1	
Head type	Standard	
Shape of signaling unit head	Rectangular	
Type of operator	spring return	
Operator profile	2 flush - 1 central projecting STOP push-buttons	
Operators description	Green "up arrow" - green "down arrow" - red "STOP"	

### Complementary

net weight	0.056 kg	
Resistance to high pressure washer	7000000 Pa at 55 °C, distance : 0.1 m	
Colour of marking	Black marking when white caps White marking when green, red or black caps	
Operator profile	Red projecting, STOP (white) Green flush, down arrow (white) Green flush, up arrow (white)	
Mechanical durability	1000000 cycles	
Electrical composition code	C1 for <9 contacts using single blocks in front mounting C2 for <9 contacts using single and double blocks in front mounting C11 for <3 contacts using single blocks in front mounting	
device presentation	Basic element	

#### **Environment**

Ambient air temperature for storage	-4070 °C	
Ambient air temperature for operation	-2570 °C	
Electrical shock protection class	Class I conforming to IEC 60536	
IP degree of protection	IP69 conforming to IEC 60529 IP69K conforming to IEC 60529	

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NEMA degree of protection	NEMA 13 NEMA 4X		
IK degree of protection	IK06 conforming to IEC 50102		
Standards	UL 508 EN/IEC 60947-5-4 EN/IEC 60947-5-5 CSA C22.2 No 14 JIS C8201-5-1 EN/IEC 60947-1 EN/IEC 60947-5-1 JIS C8201-1		
Product certifications	CSA UL listed GL BV DNV LROS (Lloyds register of shipping)		
Vibration resistance	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 60068-2-27  50 gn (duration = 11 ms) for half sine wave acceleration conforming to 60068-2-27			

## **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.5 cm
Package 1 Width	3.3 cm
Package 1 Length	5.3 cm
Package 1 Weight	56.0 g

## **Contractual warranty**

Warranty 18 months



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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

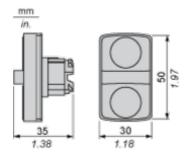
#### **Certifications & Standards**

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
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

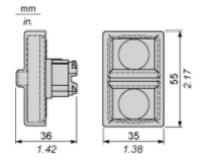
#### **Dimensions Drawings**

#### **Dimensions**

#### **Without Boot**



#### With Boot ZBA709

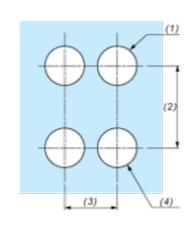


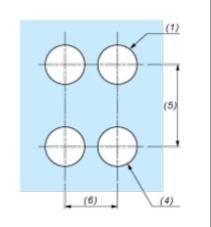
#### Mounting and Clearance

# 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

**Connection by Faston Connectors** 

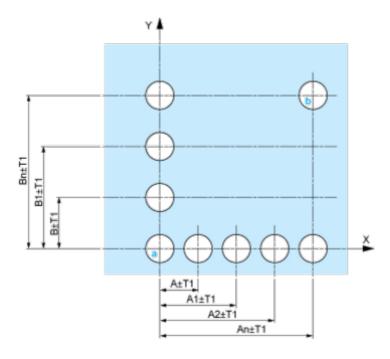




- (1) Diameter on finished panel or support
- (2) 40 mm min. / 1.57 in. min.
- (3) 30 mm min. / 1.18 in. min.
- (4) Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm  $_0^{+0.4}$  / 0.88 in.  $_0^{+0.016}$ )
- (5) 45 mm min. / 1.78 in. min.
- (6) 32 mm min. / 1.26 in. min.

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

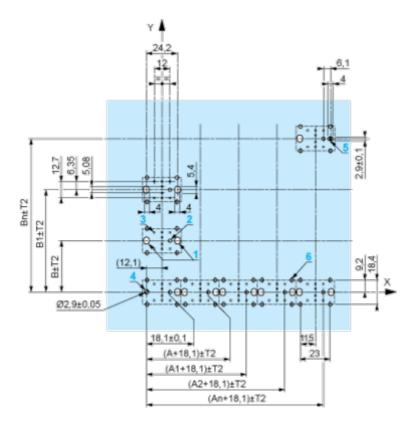
#### Panel Cut-outs (Viewed from Installer's Side)



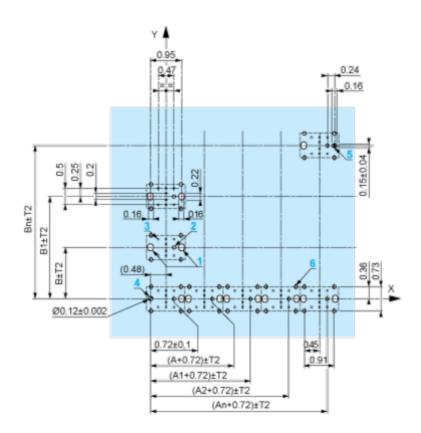
**A:** 30 mm min. / 1.18 in. min. **B:** 40 mm min. / 1.57 in. min.

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

Dimensions in mm



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



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

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

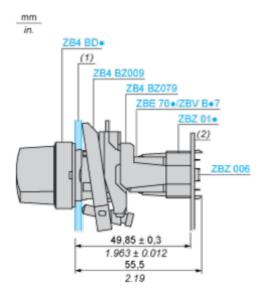
The cumulative tolerance must not exceed 0.3 mm / 0.012 in: T1 + T2 = 0.3 mm max.

#### **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 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).
  - o 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**.

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- (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
- $_{ullet}$  4 1 hole Ø 2.9 mm  $\pm$  0.05 / 0.11 in.  $\pm$  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•.

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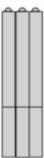
## ZB4BA731347

**Technical Description** 

**Electrical Composition Corresponding to Code C1** 



#### **Electrical Composition Corresponding to Code C2**



## **Product datasheet**

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**Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1** 



#### Legend

Single contact



Double contact



Light block



Possible location

