### Product data sheet Characteristics

### ZB4BA7121

white flush/black flush double-headed pushbutton Ø22 with marking



#### Main

Walli		
Range of product	Harmony XB4	
Product or component type	Head for double-headed push-button	
Device short name	ZB4	
Bezel material	Chromium plated metal	
Mounting diameter	22 mm	
Sale per indivisible quantity	1	
Shape of signaling unit head	Rectangular	
Type of operator	Spring return	
Operator profile	2 flush push-buttons	
Operators description	White "I" - black "O"	

#### Complementary

Main		
Range of product	Harmony XB4	
Product or component type	Head for double-headed push-button	
Device short name	ZB4	
Bezel material	Chromium plated metal	
Mounting diameter	22 mm	
Sale per indivisible quantity	1	
Shape of signaling unit head	Rectangular	
Type of operator	Spring return	
Operator profile	2 flush push-buttons	
Operators description	White "I" - black "O"	
Complementary Product weight	0.056 kg	
Resistance to high pressure washer	7000000 Pa at 55 °C, distance: 0.1 m	
Colour of marking	White marking when green, red or black caps Black marking when white caps	
Operator profile	Black flush, white O White flush, black I	
Mechanical durability	1000000 cycles	
Electrical composition code	C3 for <= 6 contacts using single blocks in front mounting C4 for <= 6 contacts using single and double blocks in front mounting C14 for <= 2 contacts using single blocks in front mounting	
Environment		
Ambient air temperature for storage	-4070 °C	
Ambient air temperature for operation	-4070 °C	
Electrical shock protection class	Class I conforming to IEC 60536	
IP degree of protection	IP69 conforming to IEC 60529	
Aug 23, 2017		

#### Environment

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

#### IP67 conforming to IEC 60529

NEMA degree of protection	NEMA 13 NEMA 4X			
IK degree of protection	IK06 conforming to IEC 50102			
Standards	JIS C 4520 EN/IEC 60947-1 CSA C22.2 No 14 EN/IEC 60947-5-5 EN/IEC 60947-5-4 UL 508 EN/IEC 60947-5-1			
Product certifications	DNV BV LROS (Lloyds register of shipping) RINA CSA GL UL listed			
Vibration resistance	(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			

#### Contractual warranty

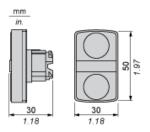
Warranty period	18 months	

# Product data sheet Dimensions Drawings

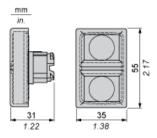
### ZB4BA7121

#### **Dimensions**

#### Without Boot

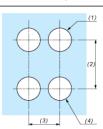


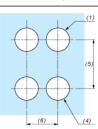
#### Without Boot ZBA708



#### 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 to Dimediac day of Faston Connectors

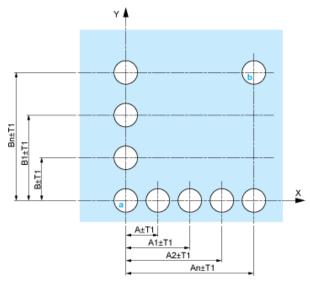




- Diameter on finished panel or support
- (2) (3) 40 mm min. / 1.57 in. min.
- 30 mm min. / 1.18 in. min.
- Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm  $_0$   $^{+0.4}$  / 0.88 in.  $_0$   $^{+0.016}$ ) (4)
- 45 mm min. / 1.78 in. min.
- (6) 32 mm min. / 1.26 in. min.

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

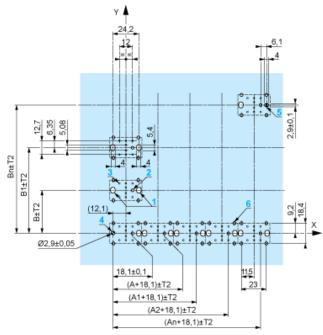
#### Panel Cut-outs (Viewed from Installer's Side)



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

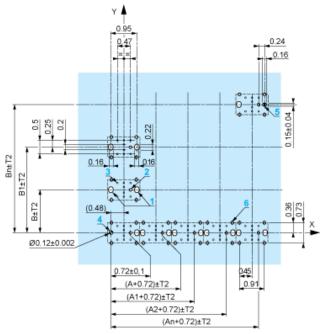
#### Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

#### Dimensions in mm



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

#### Dimensions in in.



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

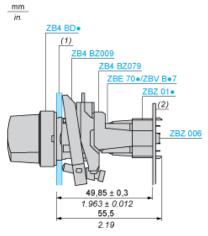
#### General Tolerances of the Panel and Printed Circuit Board

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.



- (1) Panel
- (2) Printed circuit board

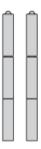
#### Mounting of Adapter (Socket) ZBZ 01•

- 1 2 elongated holes for ZBZ 006 screw access
- 2 1 hole Ø 2.4 mm  $\pm$  0.05 / 0.09 in.  $\pm$  0.002 for centring adapter ZBZ 01•
- 3 8 × Ø 1.2 mm / 0.05 in. holes
- 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•.

## ZB4BA7121

Electrical Composition Corresponding to Code C3



## ZB4BA7121

Electrical Composition Corresponding to Code C4



### ZB4BA7121

Electrical Composition Corresponding to Codes C14, SF2 and SR2



### ZB4BA7121

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	с	u	н	п	u
-		J	_	٠.	_

Single contact



Double contact



Light block



Possible location

