# Product data sheet Characteristics

## ZB4BL7341

# green flush/red projecting double-headed pushbutton Ø22 with marking



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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	
Head type	Standard	
Sale per indivisible quantity	1	
Shape of signaling unit head	Rectangular	
Type of operator	Spring return	i
Operator profile	1 flush - 1 projecting push-buttons	:
Operators description	Green "I" - red "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	Green flush, white I Red projecting, white O	
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

		2
Ambient air temperature for storage	-4070 °C	<u> </u>
Ambient air temperature for operation	-4070 °C	
Electrical shock protection class	Class I conforming to IEC 60536	in the state of th
IP degree of protection	IP69 conforming to IEC 60529 IP66 conforming to IEC 60529 IP69K	This document
NEMA degree of protection	NEMA 13 NEMA 4X	chair Griain

IK degree of protection	IK03 conforming to IEC 50102	
Standards	EN/IEC 60947-5-1	
	EN/IEC 60947-5-4	
	EN/IEC 60947-1	
	JIS C 4520	
	CSA C22.2 No 14	
	EN/IEC 60947-5-5	
	UL 508	
Product certifications	BV	
	RINA	
	DNV	
	GL	
	CSA	
	UL listed	
	LROS (Lloyds register of shipping)	
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

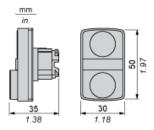
Warranty period	18 months

# Product data sheet Dimensions Drawings

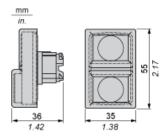
# ZB4BL7341

### **Dimensions**

## Without Boot



### With Boot ZBA710



## ZB4BL7341

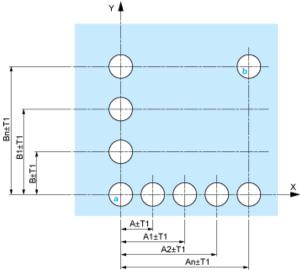
## Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board	Connection by Faston Connectors
(2)	(5)

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

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

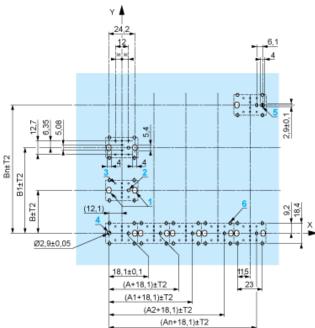
### Panel Cut-outs (Viewed from Installer's Side)



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

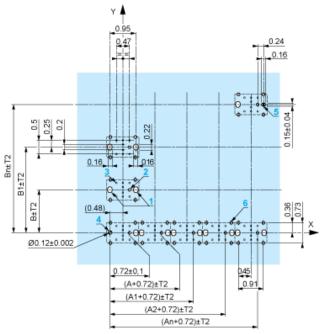
### Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

#### Dimensions in mm



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

#### Dimensions in in.



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

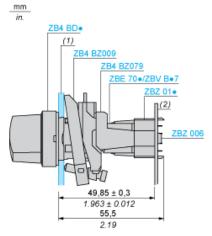
#### General Tolerances of the Panel and Printed Circuit Board

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•.

# ZB4BL7341

Electrical Composition Corresponding to Code C3



# ZB4BL7341

Electrical Composition Corresponding to Code C4



# ZB4BL7341

Electrical Composition Corresponding to Codes C14, SF2 and SR2



## ZB4BL7341

## Legend

Single contact



Double contact



Light block



Possible location

