## Product data sheet Characteristics

## ZB4BW7L3741

green flush/red projecting illuminated doubleheaded pushbutton Ø22 with marking



lai

Range of product	Harmony XB4
Product or component type	Head for illuminated double-headed push-button
Product compatibility	Integral LED
Device short name	ZB4
Bezel material	Chromium plated metal
Head type	Standard
Mounting diameter	22 mm
Sale per indivisible quantity	1
Shape of signaling unit head	Rectangular
Type of operator	Spring return
Operator profile	1 flush - 1 projecting push-buttons - 1 central pilot light
Operators description	Green "I" - red "O"

#### Complementary

Main	Harmoni VD4				
Range of product	Harmony XB4				
Product or component type	Head for illuminated double-headed push-button				
Product compatibility	Integral LED				
Device short name	ZB4				
Bezel material	Chromium plated metal				
Head type	Standard				
Mounting diameter	22 mm				
Sale per indivisible quantity	1				
Shape of signaling unit head	Rectangular				
Type of operator	Spring return				
Operator profile	1 flush - 1 projecting push-buttons - 1 central pilot light				
Operators description	Green "I" - red "O"				
Complementary					
CAD overall width	30 mm				
CAD overall height	50 mm				
CAD overall depth	30 mm				
Product 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	Green flush, white I Red projecting, white O				
Mechanical durability	1000000 cycles				
Electrical composition code	M1 for <= 6 contacts using single blocks in front mounting with integral LED  M2 for <= 6 contacts using single and double blocks in front mounting with integral LED  M10 for <= 2 contacts using single blocks in front mounting with integral LED  M6 for <= 2 contacts using single blocks in front mounting with integral LED and transformer				
Environment					
Protective treatment	TH				
·	-4070 °C				

### Environment

LITVITOTITICITE		"
Protective treatment	TH	_ 
Ambient air temperature for storage	-4070 °C	aimer

Ambient air temperature for operation	-4070 °C
Electrical shock protection class	Class I conforming to IEC 61140
IP degree of protection	IP69 conforming to IEC 60529 IP66 conforming to IEC 60529 IP69K
NEMA degree of protection	NEMA 13 NEMA 4X
IK degree of protection	IK06 conforming to IEC 50102
Standards	EN/IEC 60947-1 EN/IEC 60947-5-1 EN/IEC 60947-5-4 EN/IEC 60947-5-5 JIS C 4520 UL 508 CSA C22.2 No 14
Product certifications	BV CSA DNV GL LROS (Lloyds register of shipping) RINA UL listed
Vibration resistance	5 gn (f = 2500 Hz) conforming to IEC 60068-2-6
Shock resistance	(Duration = 18 ms) for half sine wave acceleration conforming to IEC 60068-2-27 (Duration = 11 ms) for half sine wave acceleration conforming to IEC 60068-2-27

## Contractual warranty

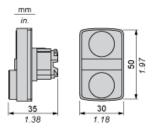
Warranty period 18 months
---------------------------

# Product data sheet Dimensions Drawings

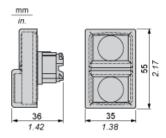
# ZB4BW7L3741

## **Dimensions**

## Without Boot



## With Boot ZBA710



## Product data sheet Mounting and Clearance

## ZB4BW7L3741

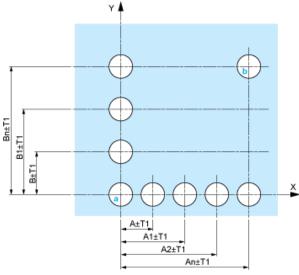
## Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

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

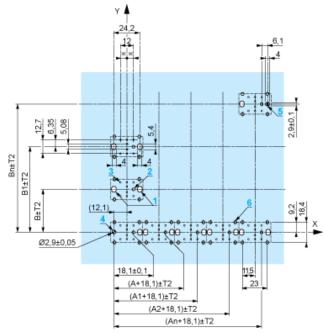
### Panel Cut-outs (Viewed from Installer's Side)



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

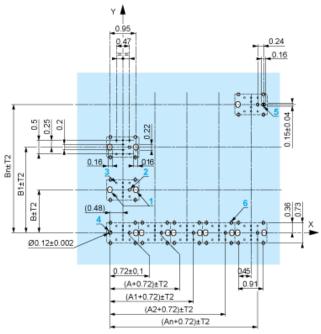
## Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

#### Dimensions in mm



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

#### Dimensions in in.



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

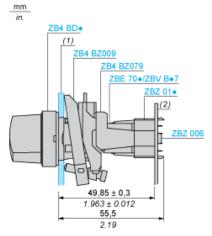
#### General Tolerances of the Panel and Printed Circuit Board

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

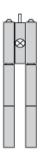
### Mounting of Adapter (Socket) ZBZ 01•

- 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•.

# ZB4BW7L3741

Electrical Composition Corresponding to Codes M1 and M7



# ZB4BW7L3741

Electrical Composition Corresponding to Codes M2 and M8



# ZB4BW7L3741

Electrical Composition Corresponding to Codes M6 and P2



# ZB4BW7L3741

Electrical Composition Corresponding to Codes M5, M10, MF1, MR1 and MF2



# ZB4BW7L3741

Legend			
Legend			
Single contact			
Double contact			
Light block			
Possible location			
Δ			