# Product datasheet Characteristics

# **ZB4BW333**

green flush illuminated pushbutton head  $\emptyset$ 22 spring return for integral LED



#### Main

Range of product	Harmony XB4	
Product or component type	Head for illuminated push-button	
Device short name	ZB4	
Product compatibility	Integral LED	
Bezel material	Chromium plated metal	
Mounting diameter	22 mm	-
Sale per indivisible quantity	1	
Shape of signaling unit head	Round	-
Type of operator	Spring return	
Operator profile	Green flush unmarked	
Operator additional information	With plain lens	-

## Complementary

CAD overall width	29 mm	
CAD overall height	29 mm	
CAD overall depth	30 mm	
Product weight	0.026 kg	
Resistance to high pressure washer	7000000 Pa at 55 °C,distance: 0.1 m	
Mechanical durability	10000000 cycles	
Electrical composition code	M6 for <= 2 contacts using single blocks in front mounting with integral LED and transformer M1 for <= 6 contacts using single blocks in front mounting with integral LED M10 for <= 2 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	
Main group	Illum push-button	
Group of product	Flush push integral LED	
Cap/Operator or lens colour	Green	
Marking	Unmarked	
Compatibility code	ZB4	

## Environment

Protective treatment	TH	
Ambient air temperature for storage	-4070 °C	
Ambient air temperature for operation	-4070 °C	
Overvoltage category	Class I conforming to IEC 60536	
IP degree of protection	IP66 conforming to IEC 60529 IP67 IP69 IP69K	
NEMA degree of protection	NEMA 4X NEMA 13	
IK degree of protection	IK06 conforming to EN 50102	
Standards	UL 508 EN/IEC 60947-5-5 JIS C 4520 CSA C22.2 No 14 EN/IEC 60947-1 EN/IEC 60947-5-4 EN/IEC 60947-5-1	
Product certifications	LROS (Lloyds register of shipping) CSA BV UL listed DNV GL RINA	
Vibration resistance	5 gn (f = 2500 Hz) conforming to IEC 60068-2-6	
Shock resistance	50 gn (duration = 11 ms) for half sine wave acceleration conforming to IEC 60068-2-27 30 gn (duration = 18 ms) for half sine wave acceleration conforming to IEC 60068-2-27	

## Contractual warranty

Warranty period	18 months	
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# Product datasheet Dimensions Drawings

# **ZB4BW333**

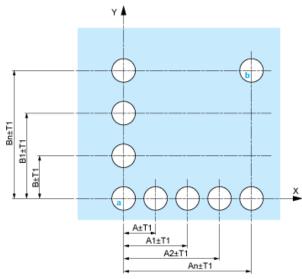
## **Dimensions**





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

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

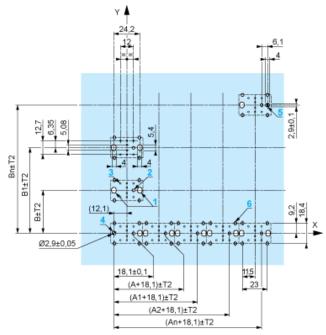


A: 30 mm min. / 1.18 in. min.

B: 40 mm min. / 1.57 in. min.

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

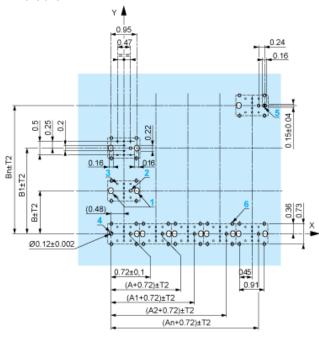
#### Dimensions in mm



A: 30 mm min.

B: 40 mm min.

#### Dimensions in in.



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

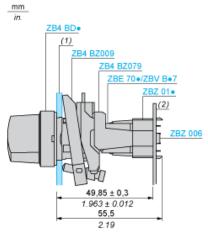
#### General Tolerances of the Panel and Printed Circuit Board

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•

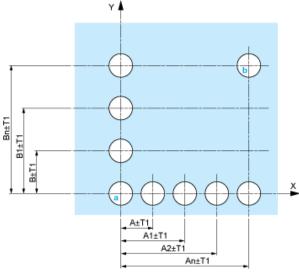
- 1 2 elongated holes for ZBZ 006 screw access
- 2 1 hole Ø 2.4 mm  $\pm$  0.05 / 0.09 in.  $\pm$  0.002 for centring adapter ZBZ 01•
- 38 × Ø 1.2 mm / 0.05 in. holes
- 4 1 hole Ø 2.9 mm  $\pm$  0.05 / 0.11 in.  $\pm$  0.002, for aligning the printed circuit board (with cut-out marked a)
- 5 1 elongated 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•.



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

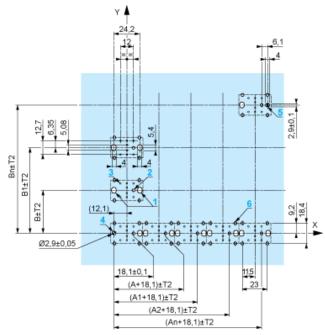
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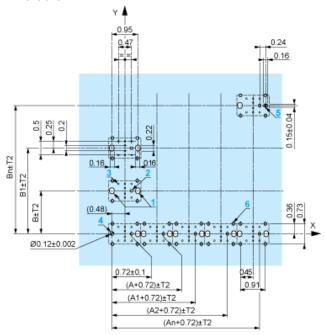
## Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

#### Dimensions in mm



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#### Dimensions in in.



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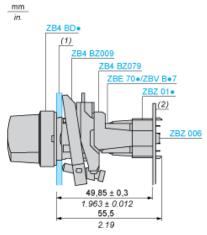
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# **ZB4BW333**

## Legend

Single contact



Double contact



Light block





# **ZB4BW333**

# Legend

Single contact



Double contact



Light block





# **ZB4BW333**

# Legend

Single contact



Double contact



Light block





# **ZB4BW333**

# Legend

Single contact



Double contact



Light block





# **ZB4BW333**

## Legend

Single contact



Double contact



Light block



