# Product data sheet Characteristics

## **ZB4BW36**

blue flush illuminated pushbutton head Ø22 spring return for BA9s bulb



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Range of product	Harmony XB4	:
Product or component type	Head for illuminated push-button	
Device short name	ZB4	
Product compatibility	BA 9s	
Bezel material	Chromium plated metal	
Head type	Standard	
Mounting diameter	22 mm	
Sale per indivisible quantity	1	
Shape of signaling unit head	Round	
Type of operator	Spring return	
Operator profile	Blue flush unmarked	
Operator additional information	With plain lens	

## Complementary

CAD overall width	29 mm	
CAD overall height	29 mm	
CAD overall depth	32 mm	
Product weight	0.027 kg	
Resistance to high pressure washer	7000000 Pa at 55 °C,distance: 0.1 m	
Mechanical durability	10000000 cycles	
Electrical composition code	M7 for <= 6 contacts using single blocks in front mounting with BA 9s M8 for <= 6 contacts using single and double blocks in front mounting with BA 9s M9 for <= 2 contacts using single blocks in front mounting with BA 9s and transformer	

### **Environment**

Protective treatment	TH
Ambient air temperature for storage	-4070 °C
Ambient air temperature for operation	-4055 °C
Overvoltage category	Class I conforming to IEC 60536
IP degree of protection	IP69 IP67 IP66 conforming to IEC 60529

	IP69K
NEMA degree of protection	NEMA 13 NEMA 4X
IK degree of protection	IK06 conforming to EN 50102
Standards	UL 508 EN/IEC 60947-1 EN/IEC 60947-5-4 EN/IEC 60947-5-5 CSA C22.2 No 14 EN/IEC 60947-5-1 JIS C 4520
Product certifications	UL listed GL BV CSA DNV RINA LROS (Lloyds register of shipping)
Vibration 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 IEC 60068-2-27 50 gn (duration = 11 ms) for half sine wave acceleration conforming to IEC 60068-2-27

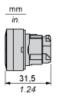
## Contractual warranty

Warranty period	18 months	

# Product data sheet Dimensions Drawings

# **ZB4BW36**

### **Dimensions**





## **ZB4BW36**

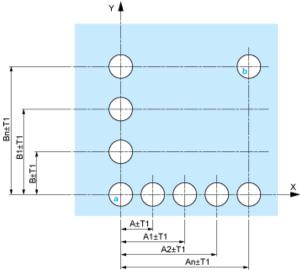
## Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

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

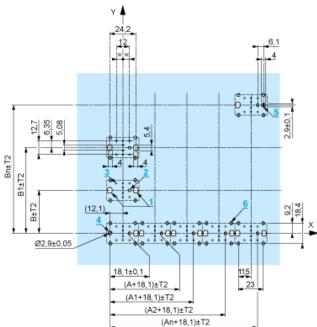
### Panel Cut-outs (Viewed from Installer's Side)



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

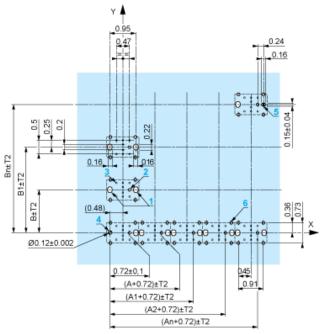
### Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

#### Dimensions in mm



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

#### Dimensions in in.



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

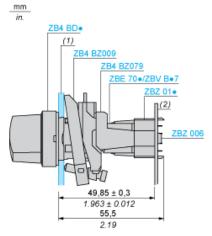
#### General Tolerances of the Panel and Printed Circuit Board

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

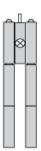
### Mounting of Adapter (Socket) ZBZ 01•

- 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•.

# **ZB4BW36**

Electrical Composition Corresponding to Codes M1 and M7



# **ZB4BW36**

Electrical Composition Corresponding to Codes M2 and M8



# **ZB4BW36**

Electrical Composition Corresponding to Code M9



## **ZB4BW36**

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Single contact



Double contact



Light block



Possible location

