# **Product datasheet**

Specification





head for illuminated push button, Harmony XB4, orange, projecting pushbutton, 22mm, spring return, BA9s bulb

ZB4BW15

# Main

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	22.5 mm	
Sale Per Indivisible Quantity	1	
Shape Of Signaling Unit Head	Round	
Type Of Operator	spring return	
Operator Profile	Orange projecting, unmarked	
Operator Additional Information	With plain lens	
Cap/Operator Or Lens Colour	Orange	

# Complementary

Cad Overall Width	29 mm
Cad Overall Height	29 mm
Cad Overall Depth	32 mm
Net Weight	0.028 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
Device Presentation	Basic sub-assemblies

# **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

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Ip Degree Of Protection	IP66 conforming to IEC 60529 IP69 IP69K	
Nema Degree Of Protection	NEMA 13 NEMA 4X	
Ik Degree Of Protection	IK06 conforming to IEC 62262	
Standards	JIS C8201-5-1 IEC 60947-5-4 IEC 60947-1 CSA C22.2 No 14 UL 508 IEC 60947-5-1 IEC 60947-5-5 JIS C8201-1	
Product Certifications	UL listed GL DNV CSA BV 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	

# **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	3.4 cm
Package 1 Width	4.5 cm
Package 1 Length	5.4 cm
Package 1 Weight	28.0 g
Unit Type Of Package 2	S01
Number Of Units In Package 2	50
Package 2 Height	15.0 cm
Package 2 Width	15.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	1.558 kg

# **Contractual warranty**

Warranty 18 months



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Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

# Well-being performance

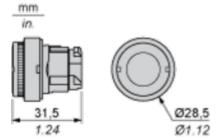
<b>⊘</b>	Reach Free Of Svhc	
<b>⊘</b>	Toxic Heavy Metal Free	
<b>⊘</b>	Mercury Free	
<b>⊘</b>	Rohs Exemption Information	Yes

### **Certifications & Standards**

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)  EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

**Dimensions Drawings** 

# **Dimensions**



#### Mounting and Clearance

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

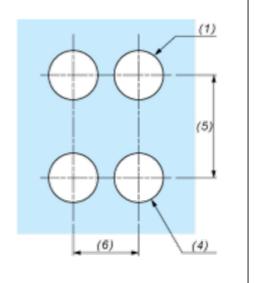
Connectors or on Printed Circuit Board

(1)

(2)

Connection by Screw Clamp Terminals or Plug-in

**Connection by Faston Connectors** 



(1) Diameter on finished panel or support

(3)

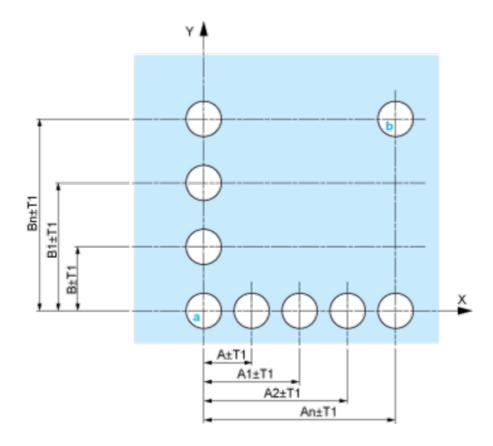
- (2) 40 mm min. / 1.57 in. min.
- (3) 30 mm min. / 1.18 in. min.
- (4) Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm  $_0^{+0.4}$  / 0.88 in.  $_0^{+0.016}$ )

(4)

- (5) 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

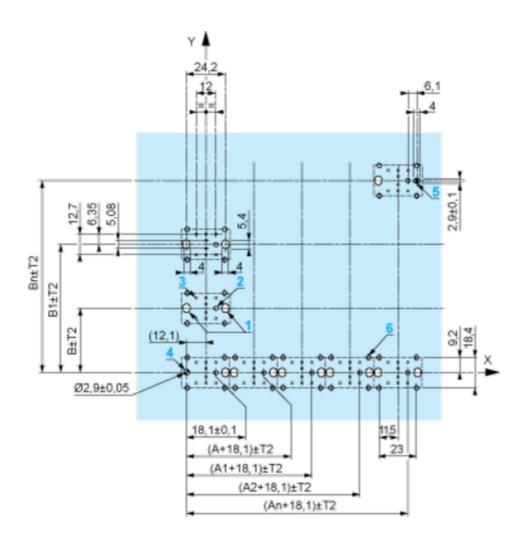
#### Panel Cut-outs (Viewed from Installer's Side)



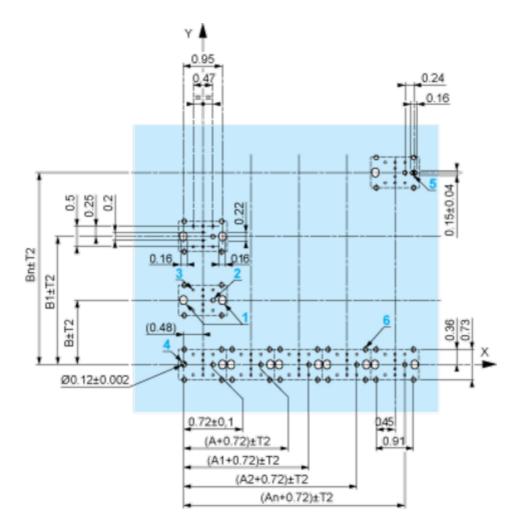
**A:** 30 mm min. / 1.18 in. min. **B:** 40 mm min. / 1.57 in. min.

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.

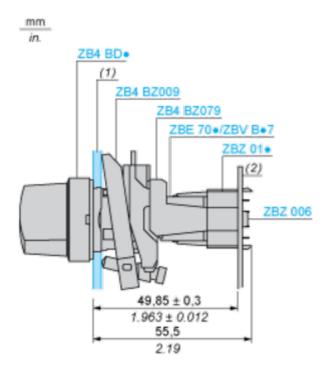
#### General Tolerances of the Panel and Printed Circuit Board

The cumulative tolerance must not exceed 0.3 mm / 0.012 in: T1 + T2 = 0.3 mm max.

#### **Installation Precautions**

- $_{\bullet}$  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:
  - $_{\circ}\;$  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 ± 0.05 / 0.09 in. ± 0.002 for centring adapter ZBZ 01•
- 3 8 × Ø 1.2 mm / 0.05 in. holes
- 4 1 hole Ø 2.9 mm ± 0.05 / 0.11 in. ± 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•

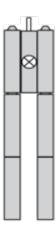
Dimensions An + 18.1 relate to the  $\emptyset$  2.4 mm  $\pm$  0.05 / 0.09 in.  $\pm$  0.002 holes for centring adapter ZBZ 01•.

# **Product datasheet**

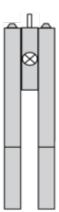
# **ZB4BW15**

**Technical Description** 

**Electrical Composition Corresponding to Codes M1 and M7** 



# **Electrical Composition Corresponding to Codes M2 and M8**



# **Electrical Composition Corresponding to Code M9**



# Legend

Single contact



Double contact



Light block



Possible location

