# Product data sheet

Specification





Harmony, 22mm Push Button, illuminated pushbutton head, flush, spring return, green, for BA9s bulb

ZB4BW33

Product availability: Stock - Normally stocked in distribution

Price\*: 18.60 USD

# 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	0.9 in (22.5 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	
Cap/operator or lens colour	Green	

# Complementary

CAD overall width	1.1 in (29 mm)	
CAD overall height	1.1 in (29 mm)	
CAD overall depth	1.3 in (32 mm)	
Net Weight	0.060 lb(US) (0.027 kg)	
Resistance to high pressure washer	1015.3 psi (7000000 Pa) 131.0000000000 °F (55 °C) 0.1 m	
Mechanical durability	10000000 cycles	
Electrical composition code	composition code M7 6 single front mounting BA 9s M8 6 single and double front mounting BA 9s M9 2 single front mounting BA 9s and transformer	
device presentation	Basic sub-assemblies	

#### **Environment**

protective treatment	тн
Ambient Air Temperature for Storage	-40.0000000000158.0000000000 °F (-4070 °C)
Ambient Air Temperature for Operation	-40.0000000000131.0000000000 °F (-4055 °C)
Overvoltage category	Class I IEC 60536

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

IP degree of protection	IP66 IEC 60529	
	IP67	
	IP69	
	IP69K	
	IFOSK	
NEMA degree of protection	NEMA 13	
	NEMA 4X	
IK degree of protection	IK06 conforming to IEC 62262	
Standards	UL 508	
	IEC 60947-1	
	JIS C8201-5-1	
	IEC 60947-5-5	
	CSA C22.2 No 14	
	IEC 60947-5-1	
	IEC 60947-5-4	
	JIS C8201-1	
Product Certifications	BV	
	CSA	
	UL Listed	
	GL	
	LROS (Lloyds register of shipping)	
	DNV	
Vibration resistance	5 gn 2500 Hz)IEC 60068-2-6	
Shock resistance	30 gn 18 ms) half sine wave acceleration IEC 60068-2-27	
	50 gn 11 ms) half sine wave acceleration IEC 60068-2-27	

# Ordering and shipping details

Category	US10CS222468	
Discount Schedule	0CS2	
GTIN	3389110889703	
Returnability	Yes	
Country of origin	CZ	

# **Packing Units**

Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	2.2 in (5.6 cm)	
Package 1 Width	1.3 in (3.4 cm)	
Package 1 Length	1.8 in (4.5 cm)	
Package 1 Weight	1.0 oz (28 g)	
Unit Type of Package 2	S01	
Number of Units in Package 2	50	
Package 2 Height	5.9 in (15 cm)	
Package 2 Width	5.9 in (15 cm)	
Package 2 Length	15.7 in (40 cm)	
Package 2 Weight	3.5 lb(US) (1.6 kg)	
Unit Type of Package 3	P06	
Number of Units in Package 3	1600	
Package 3 Height	30.3 in (77 cm)	
Package 3 Width	31.5 in (80 cm)	

Package 3 Length	23.6 in (60 cm)
Package 3 Weight	131.6 lb(US) (59.7 kg)

# **Contractual warranty**

Warranty 18 months



**Green Premium**<sup>TM</sup> **label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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>Ø</b>	Toxic Heavy Metal Free	
<b>⊘</b>	Mercury Free	
<b>⊘</b>	Rohs Exemption Information	Yes

### **Certifications & Standards**

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

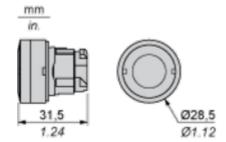
Sep 3, 2024

# **Product data sheet**

# **ZB4BW33**

**Dimensions Drawings** 

# **Dimensions**

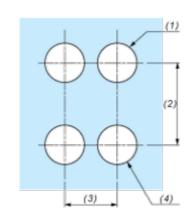


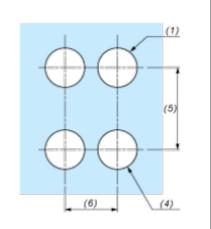
#### Mounting and Clearance

# 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** 

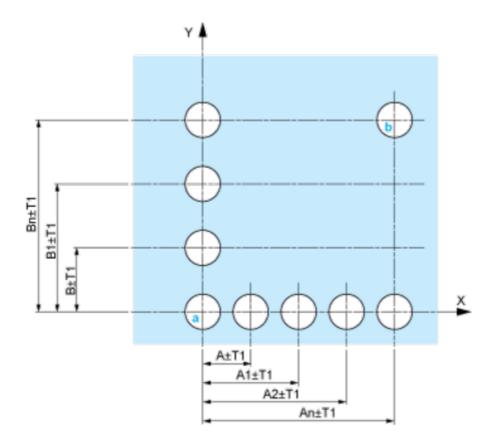




- (1) Diameter on finished panel or support
- (2) 40 mm min. / 1.57 in. min.
- (3) 30 mm min. / 1.18 in. min.
- (4) Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm  $_0^{+0.4}$  / 0.88 in.  $_0^{+0.016}$ )
- (5) 45 mm min. / 1.78 in. min.
- (6) 32 mm min. / 1.26 in. min.

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

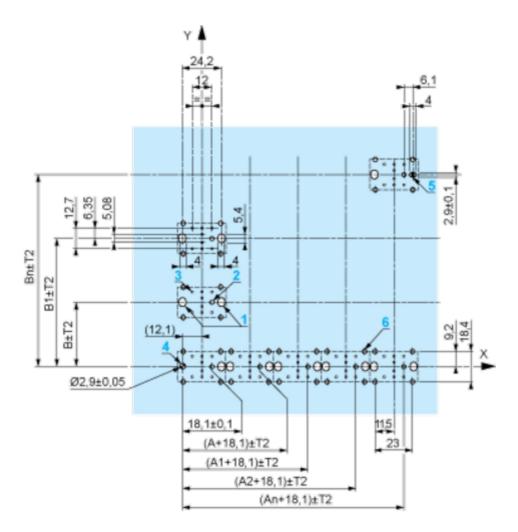
#### Panel Cut-outs (Viewed from Installer's Side)



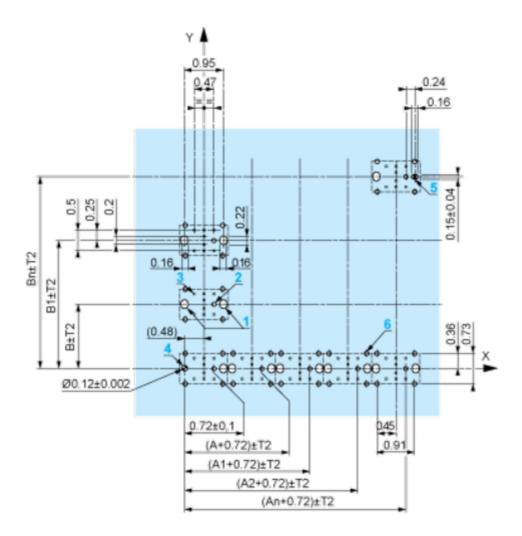
**A:** 30 mm min. / 1.18 in. min. **B:** 40 mm min. / 1.57 in. min.

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.

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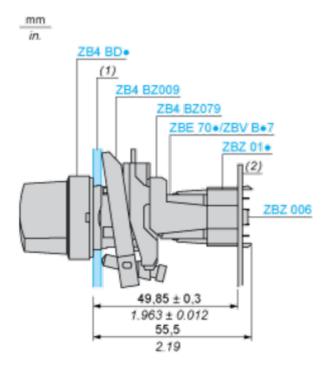
#### General Tolerances of the Panel and Printed Circuit Board

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

10

(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•

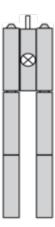
Dimensions An + 18.1 relate to the  $\varnothing$  2.4 mm  $\pm$  0.05 / 0.09 in.  $\pm$  0.002 holes for centring adapter ZBZ 01•.

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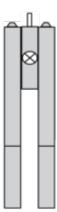
# **ZB4BW33**

**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

