



green flush illuminated pushbutton head Ø22 spring return for integral LED

Local distributor code: 237116631 ZB4BW333

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
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	Green flush, unmarked
Operator additional information	With plain lens

Complementary

29 mm
29 mm
30 mm
0.026 kg
7000000 Pa at 55 °C, distance : 0.1 m
10000000 cycles
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 M6 for <2 contacts using single blocks in front mounting with integral LED and transformer M10 for <2 contacts using single blocks in front mounting with integral LED
Basic sub-assemblies

Environment

Protective treatment	TH
Ambient air temperature for storage	-4070 °C

Ambient air temperature for peration	-4070 °C	
Overvoltage category	Class I conforming to IEC 60536	
P degree of protection	IP66 conforming to IEC 60529 IP67 IP69 IP69K	
NEMA degree of protection	NEMA 13 NEMA 4X	
IK degree of protection	IK06 conforming to EN 50102	
Standards	EN/IEC 60947-5-5 UL 508 JIS C8201-5-1 EN/IEC 60947-5-4 EN/IEC 60947-1 CSA C22.2 No 14 EN/IEC 60947-5-1 JIS C8201-1	
Product certifications	GL BV LROS (Lloyds register of shipping) DNV UL listed CSA	
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	
Number of Units in Package 1		
	27.0 g	
Package 1 Weight	27.0 g 3.4 cm	
Package 1 Weight Package 1 Height		
Package 1 Weight Package 1 Height Package 1 width	3.4 cm	
Package 1 Weight Package 1 Height Package 1 width Package 1 Length	3.4 cm 4.5 cm	
Package 1 Weight Package 1 Height Package 1 width Package 1 Length Unit Type of Package 2	3.4 cm 4.5 cm 5.4 cm	
Package 1 Weight Package 1 Height Package 1 width Package 1 Length Unit Type of Package 2 Number of Units in Package 2	3.4 cm 4.5 cm 5.4 cm P06	
Package 1 Weight Package 1 Height Package 1 width Package 1 Length Unit Type of Package 2 Number of Units in Package 2 Package 2 Weight	3.4 cm 4.5 cm 5.4 cm P06 2400	
Package 1 Weight Package 1 Height Package 1 width Package 1 Length Unit Type of Package 2 Number of Units in Package 2 Package 2 Weight Package 2 Height	3.4 cm 4.5 cm 5.4 cm P06 2400 77.98 kg	
Package 1 Weight Package 1 Height Package 1 width Package 1 Length Unit Type of Package 2 Number of Units in Package 2 Package 2 Weight Package 2 Height Package 2 width	3.4 cm 4.5 cm 5.4 cm P06 2400 77.98 kg 77 cm	
Package 1 Weight Package 1 Height Package 1 width Package 1 Length Unit Type of Package 2 Number of Units in Package 2 Package 2 Weight Package 2 Height Package 2 width Package 2 Length	3.4 cm 4.5 cm 5.4 cm P06 2400 77.98 kg 77 cm 60 cm	
Package 1 Weight Package 1 Height Package 1 width Package 1 Length Unit Type of Package 2 Number of Units in Package 2 Package 2 Weight Package 2 Height Package 2 width Package 2 Length Unit Type of Package 3	3.4 cm 4.5 cm 5.4 cm P06 2400 77.98 kg 77 cm 60 cm 80 cm	
Package 1 Weight Package 1 Height Package 1 width Package 1 Length Unit Type of Package 2 Number of Units in Package 2 Package 2 Weight Package 2 Height Package 2 width Package 2 Length Unit Type of Package 3 Number of Units in Package 3	3.4 cm 4.5 cm 5.4 cm P06 2400 77.98 kg 77 cm 60 cm 80 cm	
Package 1 Weight Package 1 Height Package 1 width Package 1 Length Unit Type of Package 2 Number of Units in Package 2 Package 2 Weight Package 2 Height Package 2 width Package 2 Length Unit Type of Package 3 Number of Units in Package 3 Package 3 Weight Package 3 Height	3.4 cm 4.5 cm 5.4 cm P06 2400 77.98 kg 77 cm 60 cm 80 cm \$03	
Package 1 Weight Package 1 Height Package 1 width Package 1 Length Unit Type of Package 2 Number of Units in Package 2 Package 2 Weight Package 2 Height Package 2 width Package 2 Length Unit Type of Package 3 Number of Units in Package 3 Package 3 Weight	3.4 cm 4.5 cm 5.4 cm P06 2400 77.98 kg 77 cm 60 cm 80 cm S03 300 8.334 kg	

Offer Sustainability

Sustainable offer status	Green Premium product	
REACh Regulation	REACh Declaration	
REACh free of SVHC	Yes	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration	

Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

Warranty	18 months

ZB4BW333

Dimensions Drawings

Dimensions





ZB4BW333

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

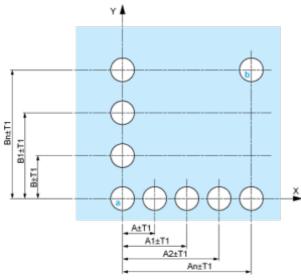
Connection by Faston Connectors

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)

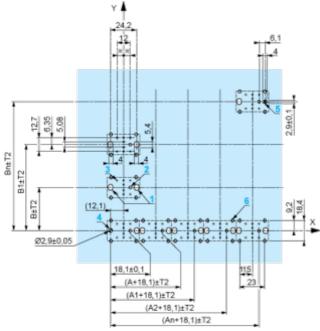


A: 30 mm min. / 1.18 in. min.

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

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

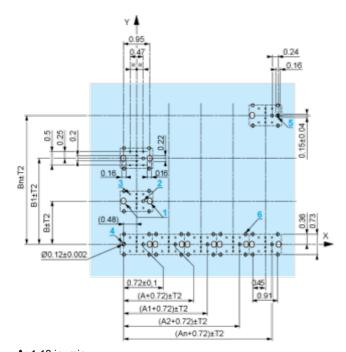
Dimensions in mm



A: 30 mm min.

B: 40 mm min.

Dimensions in in.



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

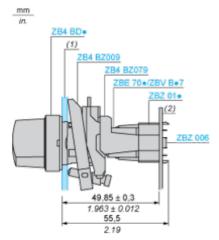
General Tolerances of the Panel and Printed Circuit Board

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•

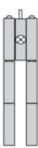
- 1 2 elongated holes for ZBZ 006 screw access
- 2 1 hole Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 for centring adapter ZBZ 01•
- 3 8 × Ø 1.2 mm / 0.05 in. holes
- 4 1 hole Ø 2.9 mm ± 0.05 / 0.11 in. ± 0.002, for aligning the printed circuit board (with cut-out marked a)
- 5 1 elongated hole for aligning the printed circuit board (with cut-out marked b)
- $\bullet~$ 6 4 holes Ø 2.4 mm / 0.09 in. for clipping in adapter ZBZ 01 $\bullet~$

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

ZB4BW333

Technical Description

Electrical Composition Corresponding to Codes M1 and M7



ZB4BW333

Technical Description

Electrical Composition Corresponding to Codes M2 and M8



ZB4BW333

Technical Description

Electrical Composition Corresponding to Codes M6 and P2



ZB4BW333

Technical Description

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



ZB4BW333

Technical Description

Lea	en	d
Leg	en	u

Single contact



Double contact



Light block



Possible location

