Product data sheet

Specifications

Head for illuminated push button, Harmony XB4, orange flush pushbutton Ø22 mm spring return integral LED

ZB4BW5537

⊘ **Discontinued**

⊘ Discontinued on: Jul 12, 2021

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	Black metal
Mounting Diameter	0.87 in (22 mm)
Sale Per Indivisible Quantity	1
Shape Of Signaling Unit Head	Round
Type Of Operator	spring return
Operator Profile	Orange flush, unmarked
Operator Additional Information	Clear boot

Complementary

Cad Overall Width	1.14 in (29 mm)
Cad Overall Height	1.14 in (29 mm)
Cad Overall Depth	1.18 in (30 mm)
Net Weight	0.07 lb(US) (0.031 kg)
Resistance To High Pressure Washer	1015.26 psi (7000000 Pa) 131 °F (55 °C) 0.1 m
Mechanical Durability	10000000 cycles
Electrical Composition Code	M1 6 single front mounting integral LED M2 6 single and double front mounting integral LED M6 2 single front mounting integral LED and transformer M10 2 single front mounting integral LED
Device Presentation	Basic sub-assemblies

Environment

Protective Treatment	TH
Ambient Air Temperature For Storage	-40…158 °F (-40…70 °C)
Ambient Air Temperature For Operation	-40…158 °F (-40…70 °C)
Overvoltage Category	Class I IEC 60536
Ip Degree Of Protection	IP66 IEC 60529 IP67

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

Nema Degree Of Protection	NEMA 13
	NEMA 4X

Ik Degree Of Protection	IK06 conforming to EN 50102

Standards	UL 508
	JIS C8201-5-1
	CSA C22.2 No 14
	EN/IEC 60947-5-1
	EN/IEC 60947-5-5
	EN/IEC 60947-5-4
	EN/IEC 60947-1
	JIS C8201-1

Product Certifications	CSA
	BV
	GL
	UL Listed
	DNV
	LROS (Lloyds register of shipping)

Vibration Resistance	5 gn 2…500 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
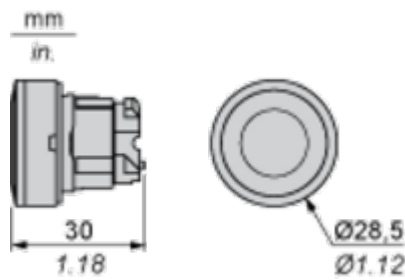
Gtin	3389110840285

Packing Units

Unit Type Of Package 1	PCE

Number Of Units In Package 1	1

Package 1 Height	2.13 in (5.4 cm)

Package 1 Width	1.34 in (3.4 cm)

Package 1 Length	1.73 in (4.4 cm)

Package 1 Weight	1.09 oz (31 g)

Contractual warranty

Warranty	18 months

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ZB4BW5537

Dimensions Drawings

Dimensions

```
mm
──
in.
```

30
1.18

Ø28,5
Ø1.12

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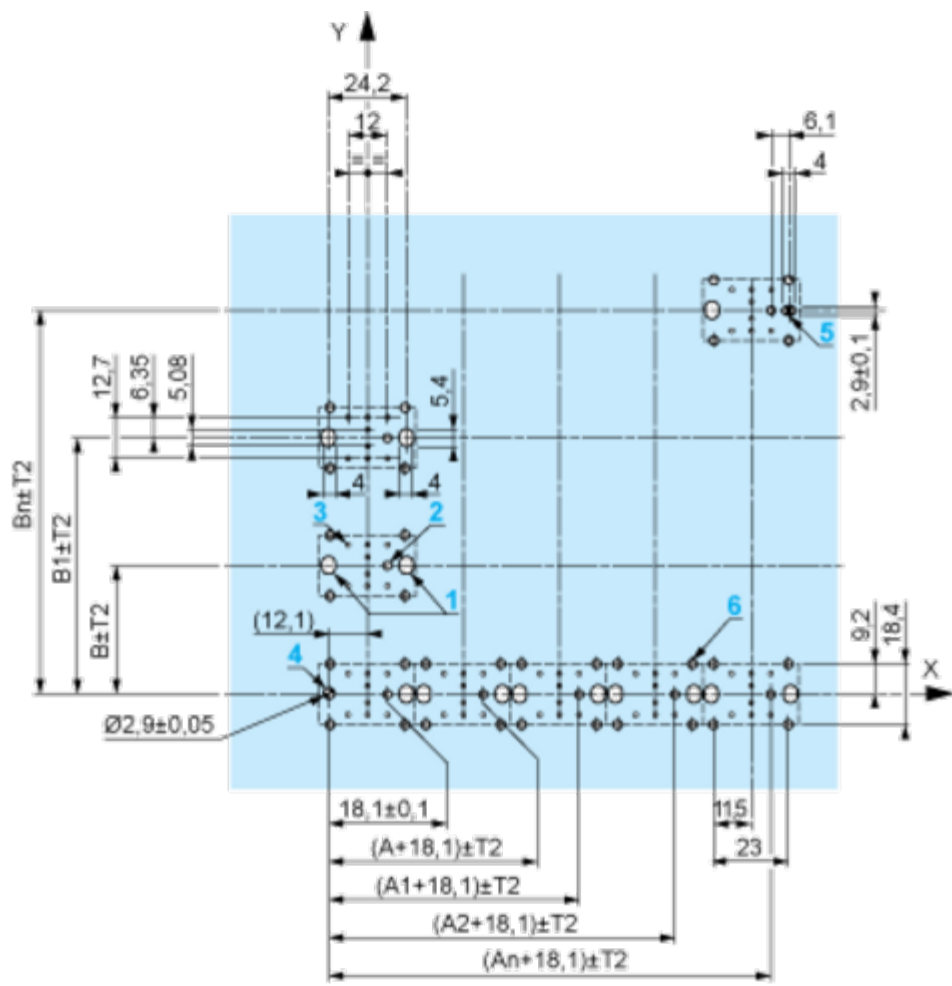
Panel Cut-outs (Viewed from Installer's Side)

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.

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:
    - every 90 mm / 3.54 in. horizontally (X), and 120 mm / 4.72 in. vertically (Y).
    - 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**.

```
mm
in.

ZB4 BD●
    (1)
ZB4 BZ009
  ZB4 BZ079
    ZBE 70●/ZBV B●7
      ZBZ 01●
        (2)
                ZBZ 006

49,85 ± 0,3
1.963 ± 0.012
    55,5
    2.19
```

(1) Panel
(2) Printed circuit board

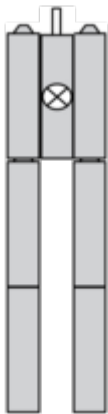## Mounting of Adapter (Socket) ZBZ 01•

- **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 Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 holes for centring adapter ZBZ 01•.

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Technical Description

Electrical Composition Corresponding to Codes M1 and M7
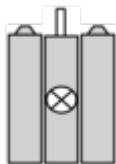
Electrical Composition Corresponding to Codes M2 and M8

Electrical Composition Corresponding to Codes M6 and P2

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

Legend

Single contact

Double contact

Light block

Possible location