Product data sheet

Specification





Head for non illuminated push button, Harmony XB4, metal, black mushroom 30mm, 22mm, spring return, unmarked

ZB4BC247

Main

| Range Of Product | Harmony XB4 | |
|-------------------------------|--|--|
| Product Or Component Type | ponent Type Head for non-illuminated push-button | |
| Device Short Name | ZB4 | |
| Bezel Material | Black metal | |
| Mounting Diameter | 0.87 in (22 mm) | |
| Sale Per Indivisible Quantity | 1 | |
| Head Type | Standard | |
| Shape Of Signaling Unit Head | Round | |
| Type Of Operator | spring return | |
| Operator Profile | Black mushroom Ø 30 mm, unmarked | |

Complementary

| Cad Overall Width | 4.40 :- (20) |
|-----------------------------|---------------------------------------|
| Cad Overall Width | 1.18 in (30 mm) |
| Cad Overall Height | 1.18 in (30 mm) |
| Ond Ownell Double | 0.05; (50) |
| Cad Overall Depth | 2.05 in (52 mm) |
| Mechanical Durability | 5000000 cycles |
| Electrical Composition Code | C1 9 single front mounting |
| | C2 9 single and double front mounting |
| | C11 3 single front mounting |
| | C15 1 single front mounting |
| Device Presentation | Basic element |

Environment

| Protective Treatment | тн |
|---------------------------------------|---------------------------------|
| Ambient Air Temperature For Storage | -40158 °F (-4070 °C) |
| Ambient Air Temperature For Operation | -40158 °F (-4070 °C) |
| Overvoltage Category | Class I IEC 60536 |
| Ip Degree Of Protection | IP66 IEC 60529 IP69 IP69K |
| Nema Degree Of Protection | NEMA 13 NEMA 4X |
| Ik Degree Of Protection | IK06 conforming to IEC 50102 |

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

| Standards | UL 508 EN/IEC 60947-1 JIS C8201-5-1 CSA C22.2 No 14 EN/IEC 60947-5-1 EN/IEC 60947-5-5 EN/IEC 60947-5-4 JIS C8201-1 | |
|------------------------|--|--|
| Product Certifications | DNV CSA LROS (Lloyds register of shipping) GL UL Listed BV | |
| 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

Gtin 3389110823677

Packing Units

| Unit Type Of Package 1 | PCE |
|------------------------------|------------------|
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 2.20 in (5.6 cm) |
| Package 1 Width | 1.34 in (3.4 cm) |
| Package 1 Length | 2.13 in (5.4 cm) |
| Package 1 Weight | 1.66 oz (47.0 g) |

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance

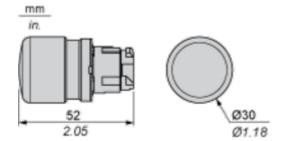
| ⊘ | Reach Free Of Svhc | |
|----------|----------------------------|-----|
| ⊘ | Toxic Heavy Metal Free | |
| ⊘ | Mercury Free | |
| ⊘ | Rohs Exemption Information | Yes |

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 |
| California Proposition 65 | WARNING: This product can expose you to chemicals including: Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov |

Dimensions Drawings

Dimensions



ZB4BC247

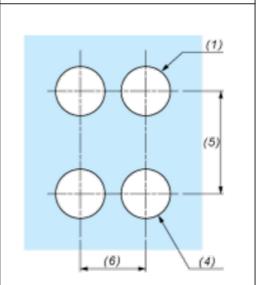
Mounting and Clearance

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)

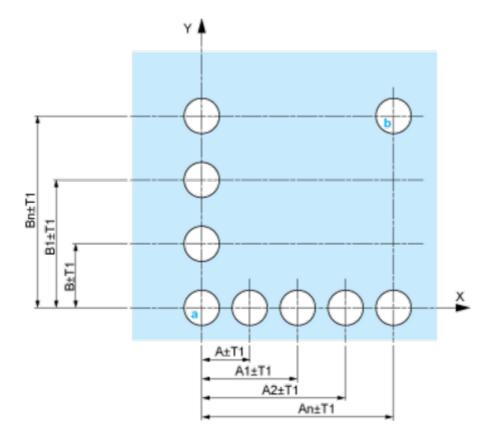
- (2) 40 mm min. / 1.57 in. min.
- (3) 30 mm min. / 1.18 in. min.
- (4) Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm $_0^{+0.4}$ / 0.88 in. $_0^{+0.016}$)

(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

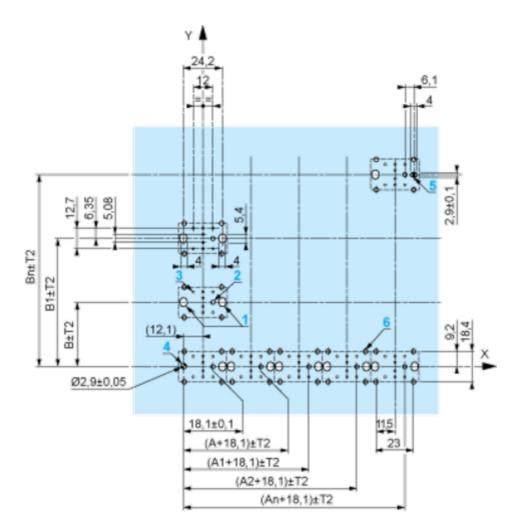
Panel Cut-outs (Viewed from Installer's Side)



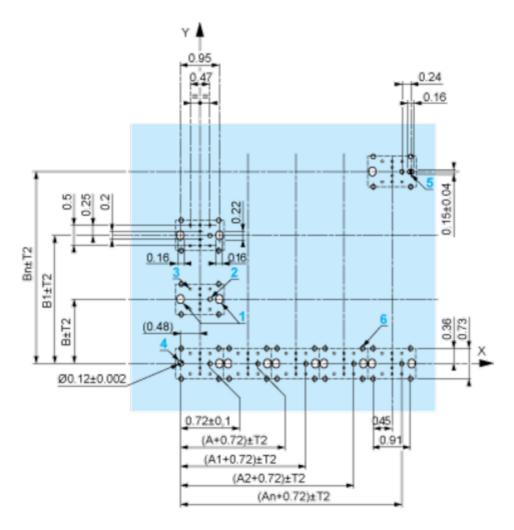
A: 30 mm min. / 1.18 in. min. **B:** 40 mm min. / 1.57 in. min.

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

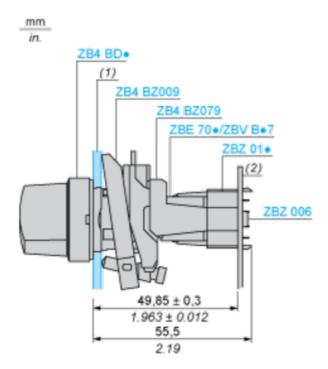
The cumulative tolerance must not exceed 0.3 mm / 0.012 in: T1 + T2 = 0.3 mm max.

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.

Apr 25, 2024



- (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•.

Technical Description

Electrical Composition Corresponding to Code C1



Electrical Composition Corresponding to Code C2



Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1



Electrical Composition Corresponding to Code C15

1 N/O



1 N/C



1 N/O + N/C or 1 N/O + N/O or 1 N/C + N/C



Legend

Single contact



Double contact



Light block



Possible location

