ZB4BC4TQ

mushroom pushbutton head ZB4BC4 sold by 100



Main

| Range of product | Harmony XB4 |
|-------------------------------|--------------------------------------|
| Product or component type | Head for non-illuminated push-button |
| Device short name | ZB4 |
| Bezel material | Chromium plated metal |
| Mounting diameter | 0.87 in (22 mm) |
| Sale per indivisible quantity | 100 |
| Shape of signaling unit head | Round |
| Type of operator | Spring return |
| Operator profile | Red mushroom Ø 40 mm, unmarked |

Complementary

| o o mpromornary | | |
|-----------------------------|--|--|
| CAD overall width | 1.57 in (40 mm) | |
| CAD overall height | 1.57 in (40 mm) | |
| 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 | |

Environment

| LIMIOIIIIEIIL | |
|---------------------------------------|---|
| Protective treatment | TH |
| 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 IEC 50102 |
| Standards | EN/IEC 60947-5-1 CSA C22.2 No 14 EN/IEC 60947-1 EN/IEC 60947-5-5 UL 508 JIS C8201-5-1 EN/IEC 60947-5-4 JIS C8201-1 |
| Product certifications | RINA CSA LROS (Lloyds register of shipping) BV DNV GL UL Listed |
| 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 | 03389110866100 |
|---------------------|------------------------|
| Package weight(Lbs) | 0.00 lb(US) (0.001 kg) |

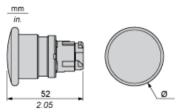
Contractual warranty

| Warranty | 18 months |
|----------|-----------|
|----------|-----------|

Product data sheet Dimensions Drawings

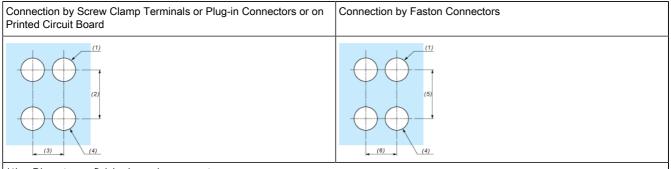
ZB4BC4TQ

Dimensions



| | Ø in mm | Ø in in. |
|--------|---------|----------|
| ZB4BC• | 40 | 1.57 |
| ZB4BR• | 60 | 2.36 |

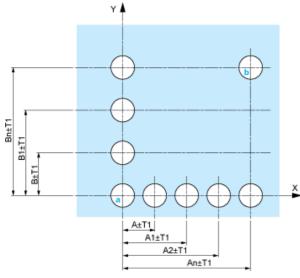
Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)



- (1) Diameter on finished panel or support
- (2) 40 mm min. / 1.57 in. min.
- (3) 30 mm min. / 1.18 in. min.
- (4) \varnothing 22.5 mm / 0.89 in. recommended (\varnothing 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).

0.16

- 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 \pm 0.05 / 0.11 in. \pm 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 \pm 0.05 / 0.09 in. \pm 0.002 holes for centring adapter ZBZ 01•.

| 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 Codes Co, CTT, CTT and CTCT |
| |
| 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

