

Product data sheet Characteristics

ZB5AA46TQ pushbutton head ZB5AA46 sold by 100

EAN Code: 3389110573756



Main

| wan | |
|--------------------------------------|--------------------------------------|
| Range of product | Harmony XB5 |
| Product or component type | Head for non-illuminated push-button |
| Device short name | ZB5 |
| Bezel material | Plastic |
| Mounting diameter | 22 mm |
| Sale per indivisible quantity | 10 |
| Shape of signaling unit head | Round |
| Type of operator | Spring return |
| Operator profile | Red recessed, unmarked |
| Operator additional in- formation | High guard |
| | |

Complementary

| CAD overall width | 29 mm |
|-----------------------------|--|
| CAD overall height | 29 mm |
| CAD overall depth | 31 mm |
| Mechanical durability | 1000000 cycles |
| Station name | XALD 15 cut-outs XALK 25 cut-outs |
| Electrical composition code | C1 for <9 contacts using single blocks in front mounting C2 for <9 contacts using single and double blocks in front mounting C11 for <3 contacts using single blocks in front mounting C15 for <1 contacts using single blocks in front mounting SF1 for <3 contacts using single blocks in front mounting SR1 for <3 contacts using single blocks in rear mounting |

Environment

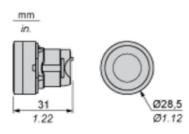
| Entrionition | | | | |
|---------------------------------------|--|--|--|--|
| Protective treatment | ТН | | | |
| Ambient air temperature for storage | -4070 °C | | | |
| Ambient air temperature for operation | -4070 °C | | | |
| Overvoltage category | Class II conforming to IEC 60536 | | | |
| IP degree of protection | IP66 conforming to IEC 60529 IP67 IP69 IP69K | | | |
| NEMA degree of protection | NEMA 13 NEMA 4X | | | |
| Resistance to high pressure washer | 7000000 Pa at 55 °C, distance : 0.1 m | | | |
| IK degree of protection | IK03 conforming to IEC 50102 | | | |
| Product certifications | UL listed[RETURN]LROS (Lloyds register of ship- ping)[RETURN]DNV[RETURN]GL[RETURN]CSA[RETURN]BV | | | |
| 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 | | | |
| Vibration resistance | 5 gn (f= 2500 Hz) conforming to IEC 60068-2-6 | | | |

18 months

Product data sheet Dimensions Drawings

ZB5AA46TQ

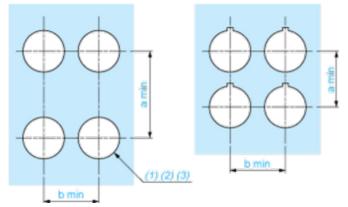
Dimensions



ZB5AA46TQ

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

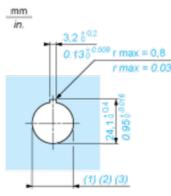
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (1) Diameter on finished panel or support
- (2) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.
- (3) Ø22.5 mm recommended (Ø22.3 $_0$ ^{+0.4}) / Ø0.89 in. recommended (Ø0.88 in. $_0$ ^{+0.016})

| Connections | a in mm | a in in. | b in mm | b in in. |
|---|---------|----------|---------|----------|
| By screw clamp terminals or plug-in connector | 40 | 1.57 | 30 | 1.18 |
| By Faston connectors | 45 | 1.77 | 32 | 1.26 |
| On printed circuit board | 30 | 1.18 | 30 | 1.18 |

Detail of Lug Recess



(1) Diameter on finished panel or support

(2) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.

(3) Ø22.5 mm recommended (Ø22.3 $_0$ ^{+0.4}) / Ø0.89 in. recommended (Ø0.88 in. $_0$ ^{+0.016})

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

Life Is On Schneider

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 ZB5AZ009: ± 2°30' (excluding cut-outs marked a and b).
- Tightening torque of screws ZBZ006: 0.6 N.m (5.3 lbf.in) max.
- Allow for one ZB5AZ079 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 (ZB5AD•, ZB5AJ•, ZB5AG•).

The fixing centers marked a and b are diagonally opposed and must align with those marked 4 and 5.



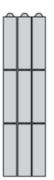
Mounting of Adapter (Socket) ZBZ01•

- 1 2 elongated holes for ZBZ006 screw access
- 2 1 hole Ø 2.4 mm \pm 0.05 / 0.09 in. \pm 0.002 for centring adapter ZBZ01•
- 38 × 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 ZBZ01•

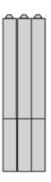
Dimensions An + 18.1 relate to the Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 holes for centring adapter ZBZ01•.

ZB5AA46TQ

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

Legend

Single contact

Double contact

Light block

Possible location