

Product data sheet Characteristics

ZB5AG3C Head for key selector switch, Harmony XB5, XB4, Ø22 mm 3 position stay put 5 multichips



Local distributor code: 409065730 EAN Code: 3389110851106

Main



| Main | |
|------------------------------------|------------------------------|
| Range of product | Harmony XB5 |
| Product or component type | Head for key selector switch |
| Device short name | ZB5 |
| Bezel material | Dark grey plastic |
| Mounting diameter | 22.5 mm |
| Head type | Standard |
| Sale per indivisible quantity | 1 |
| Shape of signaling unit head | Round |
| Type of operator | Stay put |
| Operator profile | Black key switch |
| Operator position infor- mation | 3 positions +/- 45° |
| Type of keylock | Special key |
| Key withdrawal position | Center |

Complementary

| Complementary | |
|-----------------------------|---|
| CAD overall width | 29 mm |
| CAD overall height | 29 mm |
| CAD overall depth | 72 mm |
| Mechanical durability | 1000000 cycles |
| Electrical composition code | C4 for <6 contacts using single and double blocks in front mounting C5 for <5 contacts using single blocks in front mounting C6 for <5 contacts using single and double blocks in front mounting C7 for <4 contacts using single blocks in front mounting C8 for <4 contacts using single and double blocks in front mounting C11 for <3 contacts using single blocks in front mounting C3 for <6 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

| Protective treatment | TH | | | |
|---------------------------------------|--|--|--|--|
| Ambient air temperature for storage | -4070 °C | | | |
| Ambient air temperature for operation | -2570 °C | | | |
| Overvoltage category | Class II conforming to IEC 60536 | | | |
| IP degree of protection | IP65 conforming to IEC 60529 | | | |
| Resistance to high pressure washer | 7000000 Pa at 55 °C, distance : 0.1 m | | | |
| IK degree of protection | IK06 conforming to IEC 50102 | | | |
| Standards | GB/T 14048.1 GB/T 14048.5 IEC 60947-5-1 IEC 60947-1 | | | |
| Product certifications | CCC | | | |
| | | | | |



| 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

| U | | |
|------------------------------|--------|--|
| Unit Type of Package 1 | PCE | |
| Number of Units in Package 1 | 1 | |
| Package 1 Height | 5.4 cm | |
| Package 1 Width | 8.8 cm | |
| Package 1 Length | 3.4 cm | |
| Package 1 Weight | 51.0 g | |
| | | |

Offer Sustainability

| Sustainable offer status | Green Premium product | | | |
|----------------------------|--|--|--|--|
| REACh Regulation | REACh Declaration | | | |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) | | | |
| Mercury free | Yes | | | |
| China RoHS Regulation | China RoHS Declaration | | | |
| RoHS exemption information | ₫ Yes | | | |
| Environmental Disclosure | Product Environmental Profile | | | |
| Circularity Profile | End Of Life Information | | | |

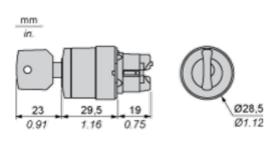
Contractual warranty

Warranty

18 months

Product data sheet Dimensions Drawings ZB5AG3C

Dimensions

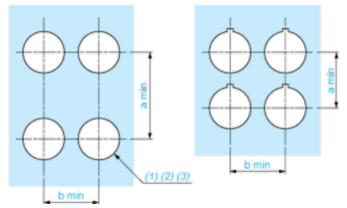




Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

ZB5AG3C

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



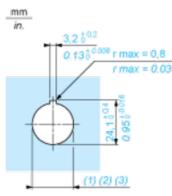
(1) Diameter on finished panel or support

(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

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.



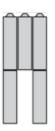
Mounting of Adapter (Socket) ZBZ01•

- 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•.

Electrical Composition Corresponding to Code C4

Electrical Composition Corresponding to Code C5

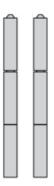


Electrical Composition Corresponding to Code C6

Electrical Composition Corresponding to Code C7

Electrical Composition Corresponding to Code C8

Electrical Composition Corresponding to Code C3



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

Legend

Single contact

Double contact

Light block

Possible location

Sequence of Contacts Fitted to 3-position Selector Switch Body

Position 315°



| Push | Position | Тор | | | |
|----------|----------|------|------------------|--------|------|
| Bottom | | | \bigtriangleup | | |
| Location | | Left | Centre | Right | |
| State | | 1 | 1 | 0 | |
| Contacts | N/O | | closed | closed | open |
| N/C | | open | open | closed | |

Position 0°



| Push | Position | Тор | | | |
|----------|------------------|------------------|------------------|--------|------|
| Bottom | \bigtriangleup | \bigtriangleup | \bigtriangleup | | |
| Location | | Left | Centre | Right | |
| State | | 0 | 0 | 0 | |
| Contacts | N/O | | open | open | open |
| N/C | | closed | closed | closed | |

Position 45°



| 0 | | | | | |
|----------|------------------|--------|--------|--------|--------|
| Push | Position | Тор | | | |
| Bottom | \bigtriangleup | | | | |
| Location | | Left | Centre | Right | |
| State | | 0 | 1 | 1 | |
| Contacts | N/O | | open | closed | closed |
| N/C | | closed | open | open | |