Product data sheet Characteristics

ZB5AK1253

Harmony XB5, Illuminated selector switch head, plastic, orange, Ø22, integral LED, 2 positions, stay put



| Main | |
|----------------------------------|--------------------------------------|
| Range of Product | Harmony XB5 |
| Product or Component Type | Head for illuminated selector switch |
| Product Compatibility | Integral LED |
| Device short name | ZB5 |
| Bezel material | Dark grey plastic |
| Mounting diameter | 0.87 in (22 mm) |
| Head type | Standard |
| Sale per indivisible quantity | 1 |
| Shape of signaling unit head | Round |
| Type of operator | Stay put |
| Operator profile | Orange standard handle |
| Operator position information | 2 positions 90° |

Complementary

| Device presentation | Basic element |
|-----------------------------|---|
| | M4 4 single and double front mounting integral LED |
| | MR1 2 single rear mounting integral LED |
| | MF1 2 single front mounting integral LED |
| | M10 2 single front mounting integral LED |
| | M6 2 single front mounting integral LED and transformer |
| Electrical composition code | M3 4 single front mounting integral LED |
| | XALK 25 cut-outs |
| Station name | XALD 15 cut-outs |
| Mechanical durability | 1000000 cycles |
| Net Weight | 0.04 lb(US) (0.016 kg) |
| CAD overall depth | 1.69 in (43 mm) |
| CAD overall height | 1.14 in (29 mm) |
| CAD overall width | 1.14 in (29 mm) |
| 0.4.D II 1.111 | |

Environment

| Protective treatment | TH | |
|---------------------------------------|---|--|
| Ambient Air Temperature for Storage | -40158 °F (-4070 °C) | |
| Ambient air temperature for operation | -40158 °F (-4070 °C) | |
| Overvoltage category | Class II IEC 60536 | |
| IP degree of protection | IP66 IEC 60529 IP67 IP69 IP69K | |
| NEMA degree of protection | NEMA 13 NEMA 4X | |
| Resistance to high pressure washer | 1015.26 psi (7000000 Pa) 131 °F (55 °C) 0.1 m | |
| IK degree of protection | IK06 IEC 50102 | |
| | | |



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

| Category | 22467 - PUSHBUTTONS,22MM(PLASTIC) NEW | | |
|-----------------------|---------------------------------------|--|--|
| Discount Schedule | CS2 | | |
| GTIN | 3389110906080 | | |
| Nbr. of units in pkg. | 1 | | |
| Package weight(Lbs) | 0.85 oz (24 g) | | |
| Returnability | Yes | | |
| Country of origin | FR | | |

Packing Units

| 0 | |
|------------------------------|------------------------|
| Unit Type of Package 1 | PCE |
| Package 1 Height | 2.17 in (5.5 cm) |
| Package 1 width | 2.05 in (5.2 cm) |
| Package 1 Length | 1.30 in (3.3 cm) |
| Unit Type of Package 2 | BB1 |
| Number of Units in Package 2 | 5 |
| Package 2 Weight | 4.13 oz (117 g) |
| Package 2 Height | 2.17 in (5.5 cm) |
| Package 2 width | 10.24 in (26 cm) |
| Package 2 Length | 1.30 in (3.3 cm) |
| Unit Type of Package 3 | S02 |
| Number of Units in Package 3 | 100 |
| Package 3 Weight | 6.00 lb(US) (2.722 kg) |
| Package 3 Height | 5.91 in (15 cm) |
| Package 3 width | 11.81 in (30 cm) |
| Package 3 Length | 15.75 in (40 cm) |
| | |

Offer Sustainability

| Sustainable offer status Green Premium product | | | |
|--|---|--|--|
| 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 | | |
| REACh Regulation | REACh Declaration | | |
| REACh free of SVHC | Yes | | |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) delta BoHS | | |
| Toxic heavy metal free | Yes | | |
| Mercury free | Yes | | |
| RoHS exemption information | de Yes € | | |
| China RoHS Regulation | China RoHS Declaration | | |

| Environmental Disclosure | Product Environmental Profile |
|--------------------------|-------------------------------|
| Circularity Profile | Trad Of Life Information |

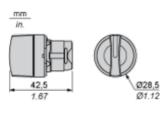
End Of Life Information

Contractual warranty

Warranty

18 months

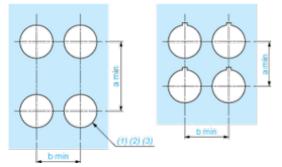
Dimensions



ZB5AK1253

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



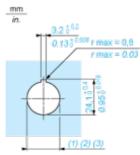
(1) Diameter on finished panel or support

(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



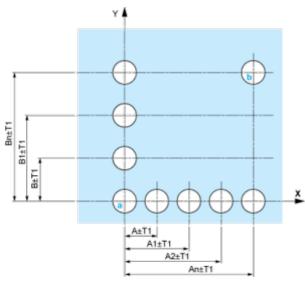
(1) Diameter on finished panel or support

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

(3) \emptyset 22.5 mm recommended (\emptyset 22.3 $_0$ ^{+0.4}) / \emptyset 0.89 in. recommended (\emptyset 0.88 in. $_0$ ^{+0.016})

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

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

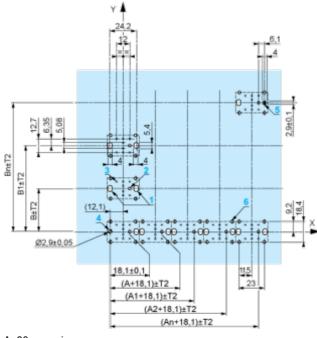


A: 30 mm min. / 1.18 in. min.

B: 40 mm min. / 1.57 in. min.

Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

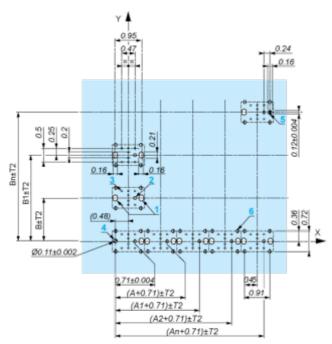
Dimensions in mm



A: 30 mm min.

B: 40 mm min.

Dimensions in in.





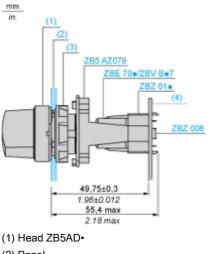
General Tolerances of the Panel and Printed Circuit Board

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.
- ٠ Cut-out diameter: 22.4 mm ± 0.1 / 0.88 in. ± 0.004
- ٠ 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:
 - $\circ~$ 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.



- (2) Panel
- (2) Nut
- (4) Printed circuit board

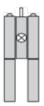
Mounting of Adapter (Socket) ZBZ01•

- 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 \pm 0.05 / 0.09 in. \pm 0.002 holes for centring adapter ZBZ01+.

ZB5AK1253

Electrical Composition Corresponding to Code M3



Electrical Composition Corresponding to Code M4



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



Sequence of Contacts Fitted to 2-position Selector Switch Body

Position 315°

315°

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

Position 45°



| Push | Position | Тор | | ↓ ⊗ | |
|----------|----------|------|--------|--------|--|
| Bottom | | | | | |
| Location | | Left | Right | | |
| State | | 1 | 1 | | |
| Contacts | N/O | | closed | closed | |
| N/C | | open | open | | |