Product data sheet Characteristics

ZB5AK1553 orange illuminated selector switch head Ø22 3position spring return

Product availability: Non-Stock - Not normally stocked in distribution facility



| 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 | 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 | Spring return to centre |
| Operator profile | Orange standard handle |
| Operator position infor- mation | 3 positions +/- 45° |

Complementary

| CAD overall width | 1.14 in (29 mm) |
|-----------------------------|---|
| CAD overall height | 1.14 in (29 mm) |
| CAD overall depth | 1.69 in (43 mm) |
| Product weight | 0.04 lb(US) (0.016 kg) |
| Mechanical durability | 1000000 cycles |
| Station name | XALD 15 cut-outs XALK 25 cut-outs |
| Electrical composition code | M6 2 contacts using single blocks in front mounting with integral LED and trans- former M10 2 contacts using single blocks in front mounting with integral LED M3 for 4 contacts using single blocks in front mounting with integral LED M4 for 4 contacts using single and double blocks in front mounting with integral LED MF1 2 contacts using single blocks in front mounting with integral LED MR1 2 contacts using single blocks in rear mounting with integral LED |

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 II conforming to IEC 60536 |
| IP degree of protection | IP69 IP67 IP66 conforming to IEC 60529 IP69K |
| NEMA degree of protection | NEMA 13 NEMA 4X |
| Resistance to high pressure washer | 1015.26 psi (7000000 Pa) at 131 °F (55 °C),distance: 0.1 m |
| IK degree of protection | IK06 conforming to IEC 50102 |
| | |



| Standards | EN/IEC 60947-1 |
|------------------------|---|
| | EN/IEC 60947-5-1 |
| | EN/IEC 60947-5-4 |
| | EN/IEC 60947-5-5 |
| | JIS C 4520 |
| | UL 508 |
| | CSA C22.2 No 14 |
| Product certifications | BV |
| | CSA |
| | DNV |
| | GL |
| | LROS (Lloyds register of shipping) |
| | RINA |
| | UL listed |
| Vibration resistance | 5 gn (f = 2500 Hz) conforming to IEC 60068-2-6 |
| Shock resistance | 30 gn (duration = 18 ms) half sine wave acceleration conforming to IEC 60068-2-27 |
| | 50 gn (duration = 11 ms) half sine wave acceleration conforming to IEC 60068-2-27 |
| | |

Ordering and shipping details

| Category | 22467 - PUSHBUTTONS,22MM(PLASTIC) NEW |
|-----------------------|---------------------------------------|
| Discount Schedule | CS2 |
| GTIN | 00785901387145 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 0.10000000000001 |
| Returnability | Ν |
| Country of origin | FR |
| | |

Offer Sustainability

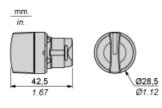
| More information | For more information go to www.p65warnings.ca.gov |
|---------------------------|--|
| Substance 2 | Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. |
| Substance 1 | Nickel compounds, which is known to the State of California to cause cancer, and |
| California proposition 65 | WARNING: This product can expose you to chemicals including: |

Contractual warranty

Warranty period

18 months

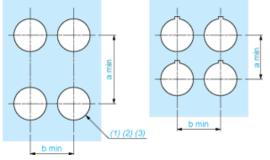
Dimensions



ZB5AK1553

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



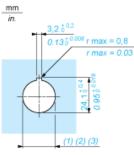
Diameter on finished panel or support (1)

For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended. \emptyset 22.5 mm recommended (\emptyset 22.3 $_0^{+0.4}$) / \emptyset 0.89 in. recommended (\emptyset 0.88 in. $_0^{+0.016}$) (2)

(3)

| 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

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

(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)





- A: 30 mm min.
- B: 40 mm 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.



- (1) Head ZB5AD•
- (2) Panel
- (2) Nut
- (4) Printed circuit board

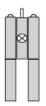
Mounting of Adapter (Socket) ZBZ01•

- 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•
- 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 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.

ZB5AK1553

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 3-position Selector Switch Body

Position 315°

| 315° | | | | | |
|----------|----------|------------------|--------|-----------|--|
| Push | Position | Тор | | | |
| | | | | | |
| | | | | \otimes | |
| | | | | | |
| | | | | | |
| Bottom | | \bigtriangleup | | | |
| Location | | Left | Right | | |
| State | | 1 | 0 | | |
| Contacts | N/O | | closed | open | |
| N/C | | open | closed | | |

Position 0°



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

Position 45°

Ø^{45°}

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

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Schneider Electric: ZB5AK1553