

Product data sheet

Specifications



Head for illuminated selector switch, Harmony XB4, black metal, orange handle, 22mm, universal LED, 3 positions,

ZB4BK15537

Important message: A change in appearance may be noted on the product but does not affect its use in terms of function and safety. This makes it compatible with our Universal LED blocks

Main

| | |
|-------------------------------|--------------------------------------|
| Range of Product | Harmony XB4 |
| Product or Component Type | Head for illuminated selector switch |
| Product Compatibility | Universal LED |
| Device short name | ZB4 |
| Bezel material | Black metal |
| Head type | Standard |
| Mounting diameter | 0.9 in (22.5 mm) |
| Sale per indivisible quantity | 1 |
| Shape of signaling unit head | Round |
| Type of operator | To centre spring return |
| Operator profile | Orange standard handle |
| Operator position information | 3 positions +/- 45° |
| Cap/operator or lens colour | Orange |

Complementary

| | |
|------------------------------------|--|
| CAD overall width | 1.1 in (29 mm) |
| CAD overall height | 1.1 in (29 mm) |
| CAD overall depth | 1.7 in (43 mm) |
| Net Weight | 0.079 lb(US) (0.036 kg) |
| Resistance to high pressure washer | 1015.3 psi (7000000 Pa) 131.0000000000 °F (55 °C) 0.1 m |
| Mechanical durability | 500000 cycles |
| Electrical composition code | M3 4 single front mounting integral LED M6 2 single front mounting integral LED and transformer M10 2 single front mounting integral LED M4 4 single and double front mounting integral LED |
| device presentation | Basic element |

Environment

| | |
|---------------------------------------|--|
| protective treatment | TH |
| Ambient Air Temperature for Storage | -40.0000000000...158.0000000000 °F (-40...70 °C) |
| Ambient Air Temperature for Operation | -40.0000000000...158.0000000000 °F (-40...70 °C) |

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

| | |
|---------------------------|---|
| Overvoltage category | Class I IEC 60536 |
| IP degree of protection | IP66 IEC 60529 IP67 IP69 IP69K |
| NEMA degree of protection | NEMA 13 NEMA 4X |
| IK degree of protection | IK04 conforming to IEC 50102 |
| Standards | IEC 60947-5-5 IEC 60947-5-1 JIS C8201-5-1 UL 508 IEC 60947-1 CSA C22.2 No 14 IEC 60947-5-4 JIS C8201-1 |
| Product Certifications | DNV GL BV UL Listed CSA LROS (Lloyds register of shipping) |
| Vibration resistance | 5 gn 2...500 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 | 3389110841039 |
|------|---------------|

Packing Units

| | |
|------------------------------|-----------------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 2.2 in (5.6 cm) |
| Package 1 Width | 1.3 in (3.4 cm) |
| Package 1 Length | 2.1 in (5.4 cm) |
| Package 1 Weight | 1.4 oz (40.0 g) |

Contractual warranty

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

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

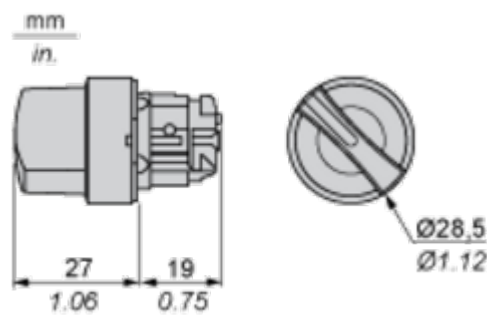
[Guide to assess a product's sustainability >](#)

Well-being performance

| | | |
|---------------------------|----------------------------|---|
| ✓ | Reach Free Of Svhc | |
| ✓ | Toxic Heavy Metal Free | |
| ✓ | Mercury Free | |
| ✓ | Rohs Exemption Information | Yes |
| | | |
| Eu Rohs Directive | | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| China Rohs Regulation | | China RoHS declaration |
| 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 |

Dimensions Drawings

Dimensions



Mounting and Clearance

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 | Connection by Faston Connectors |
|---|---------------------------------|
| | |
| <p>(1) Diameter on finished panel or support</p> <p>(2) 40 mm min. / 1.57 in. min.</p> <p>(3) 30 mm min. / 1.18 in. min.</p> <p>(4) Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm $^{+0.4}_0$ / 0.88 in. $^{+0.016}_0$)</p> <p>(5) 45 mm min. / 1.78 in. min.</p> <p>(6) 32 mm min. / 1.26 in. min.</p> | |

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

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

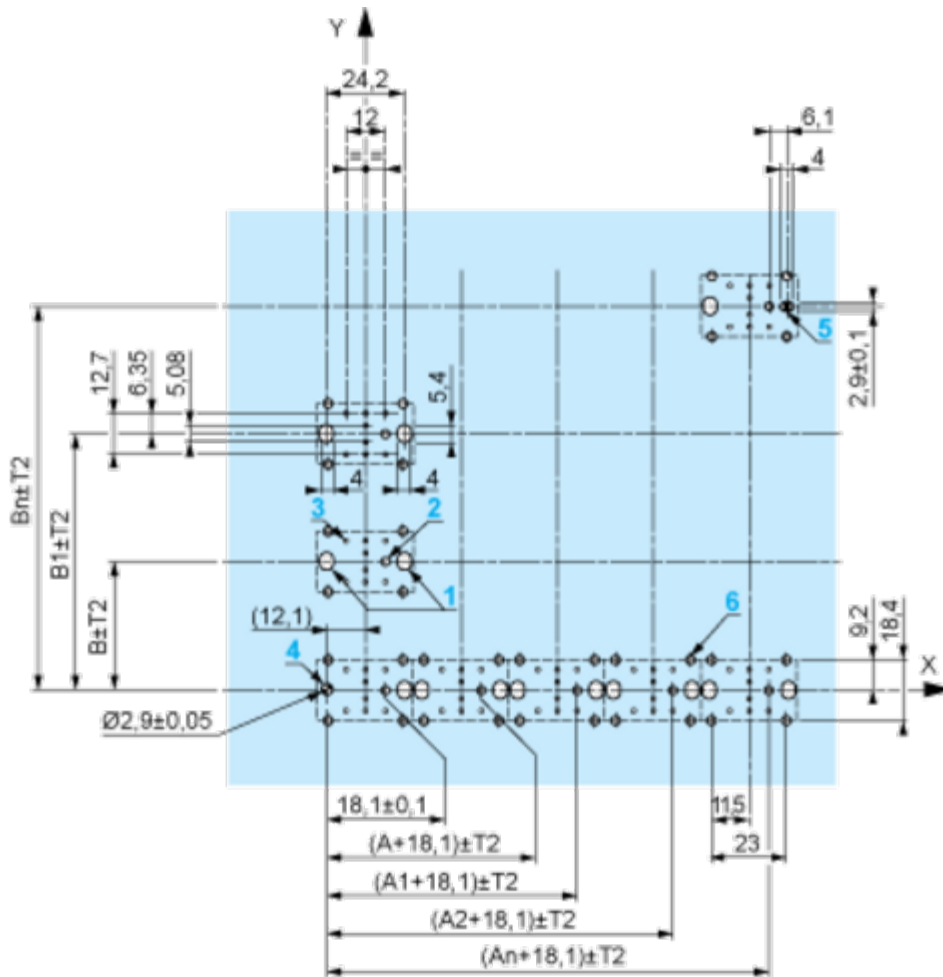


A: 30 mm min. / 1.18 in. min.

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: $T1 + T2 = 0.3 \text{ mm max.}$

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: $\pm 2^\circ 30'$ (excluding cut-outs marked a and b).
- 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:
 - every 90 mm / 3.54 in. horizontally (X), and 120 mm / 4.72 in. vertically (Y).
 - 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 $\varnothing 2.4 \text{ mm} \pm 0.05 / 0.09 \text{ in.} \pm 0.002$ for centring adapter ZBZ 01•
- 3 $8 \times \varnothing 1.2 \text{ mm} / 0.05 \text{ in.}$ holes
- 4 1 hole $\varnothing 2.9 \text{ mm} \pm 0.05 / 0.11 \text{ in.} \pm 0.002$, 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 $\varnothing 2.4 \text{ mm} / 0.09 \text{ in.}$ for clipping in adapter ZBZ 01•

Dimensions An + 18.1 relate to the $\varnothing 2.4 \text{ mm} \pm 0.05 / 0.09 \text{ in.} \pm 0.002$ holes for centring adapter ZBZ 01•.

Technical Description

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



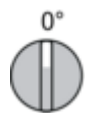
Sequence of Contacts Fitted to 3-position Selector Switch Body

Position 315°



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





Position 0°



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

Position 45°



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