

Product data sheet

Specifications



Illuminated double headed push button head, Harmony XB4, metal, 22mm, 1 white flush UP ARROW + 1 pilot light + 1 black flush DOWN ARROW

ZB4BW7A1724

Main

| | |
|-------------------------------|--|
| Range Of Product | Harmony XB4 |
| Product Or Component Type | Head for illuminated double-headed push-button |
| Product Compatibility | Integral LED |
| Device Short Name | ZB4 |
| Bezel Material | Chromium plated metal |
| Head Type | Standard |
| Mounting Diameter | 22 mm |
| Sale Per Indivisible Quantity | 1 |
| Shape Of Signaling Unit Head | Rectangular |
| Type Of Operator | spring return |
| Operator Profile | 2 flush push-buttons - 1 central pilot light |
| Operators Description | White "up arrow" - black "down arrow" |

Complementary

| | |
|------------------------------------|--|
| Cad Overall Width | 30 mm |
| Cad Overall Height | 50 mm |
| Cad Overall Depth | 30 mm |
| Net Weight | 0.056 kg |
| Resistance To High Pressure Washer | 7000000 Pa at 55 °C, distance : 0.1 m |
| Colour Of Marking | White marking when green, red or black caps Black marking when white caps |
| Operator Profile | White flush, up arrow (black) Black flush, down arrow (white) |
| Mechanical Durability | 1000000 cycles |
| Electrical Composition Code | M1 for <6 contacts using single blocks in front mounting with integral LED M2 for <6 contacts using single and double blocks in front mounting with integral LED M6 for <2 contacts using single blocks in front mounting with integral LED and transformer M10 for <2 contacts using single blocks in front mounting with integral LED |
| Device Presentation | Basic sub-assemblies |

Environment

| | |
|----------------------|----|
| Protective Treatment | TH |
|----------------------|----|

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

| | |
|---------------------------------------|--|
| Ambient Air Temperature For Storage | -40...70 °C |
| Ambient Air Temperature For Operation | -40...70 °C |
| Electrical Shock Protection Class | Class I conforming to IEC 61140 |
| Ip Degree Of Protection | IP66 conforming to IEC 60529 IP67 conforming to IEC 60529 IP69 IP69K |
| Nema Degree Of Protection | NEMA 13 NEMA 4X |
| Ik Degree Of Protection | IK06 conforming to IEC 50102 |
| Standards | EN/IEC 60947-5-4 EN/IEC 60947-5-5 UL 508 JIS C8201-5-1 EN/IEC 60947-1 CSA C22.2 No 14 EN/IEC 60947-5-1 JIS C8201-1 |
| Product Certifications | BV DNV UL listed LROS (Lloyds register of shipping) CSA GL |
| Vibration Resistance | 5 gn (f= 2...500 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

| | |
|------------------------------|-----------|
| Unit Type Of Package 1 | PCE |
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 2.8 cm |
| Package 1 Width | 4.4 cm |
| Package 1 Length | 4.8 cm |
| Package 1 Weight | 56.0 g |
| Unit Type Of Package 2 | S03 |
| Number Of Units In Package 2 | 200 |
| Package 2 Height | 30 cm |
| Package 2 Width | 30 cm |
| Package 2 Length | 40 cm |
| Package 2 Weight | 11.763 kg |

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 >](#)



Transparency RoHS/REACH

Well-being performance

✓ Reach Free Of Svhc

✓ Toxic Heavy Metal Free

✓ Mercury Free

✓ Rohs Exemption Information Yes

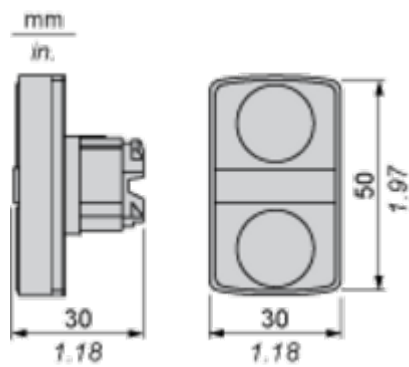
Certifications & Standards

| | |
|--------------------------|---|
| Reach Regulation | REACH Declaration |
| Eu Rohs Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| China Rohs Regulation | China RoHS declaration |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End of Life Information |

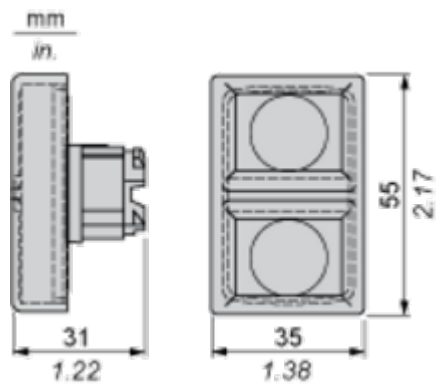
Dimensions Drawings

Dimensions

Without Boot

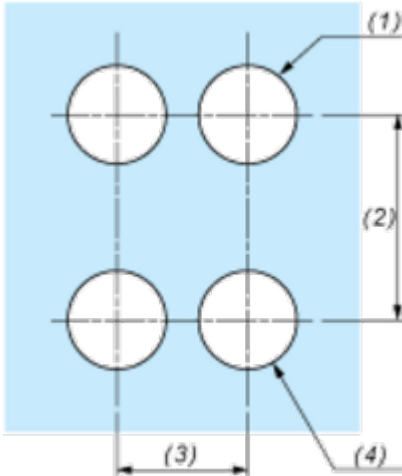
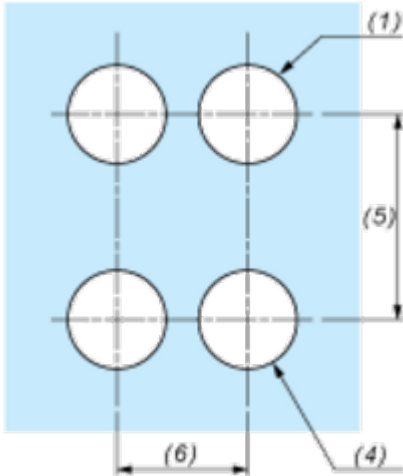


With Boot ZBA708



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 |
|---|--|
|  |  |
| <div>(1) Diameter on finished panel or support</div> <div>(2) 40 mm min. / 1.57 in. min.</div> <div>(3) 30 mm min. / 1.18 in. min.</div> <div>(4) Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm ^{+0.4}₀ / 0.88 in. ^{+0.016}₀)</div> <div>(5) 45 mm min. / 1.78 in. min.</div> <div>(6) 32 mm min. / 1.26 in. min.</div> | |

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

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



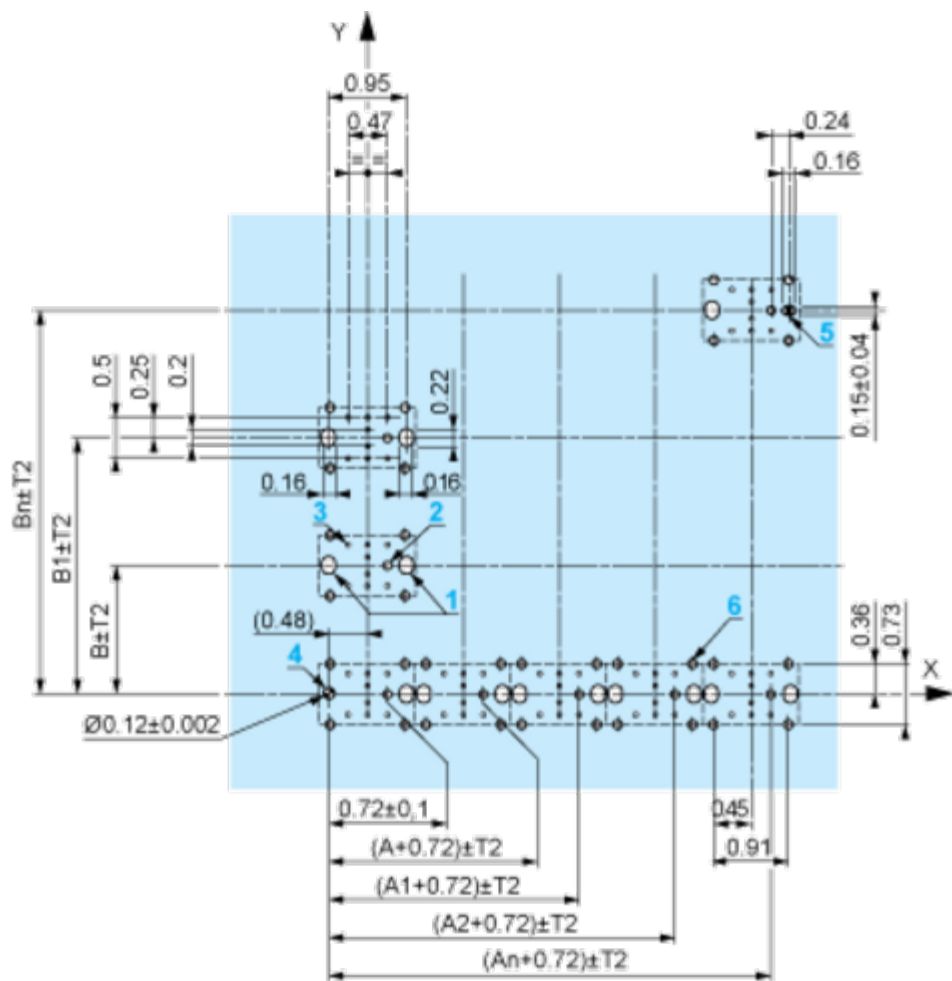
A: 30 mm min. / 1.18 in. min.
B: 40 mm min. / 1.57 in. min.

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: $22.4 \text{ mm} \pm 0.1$ / $0.88 \text{ in.} \pm 0.004$
- 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 Codes M1 and M7



Electrical Composition Corresponding to Codes M2 and M8



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

