# Product data sheet

Specifications



## Harmony XB4, Light block with body/fixing collar, metal, blue, integral LED, 24 V AC/DC, 1 NO + 1 NC

ZB4BW0B65

**Product availability : Stock - Normally stocked in distribution facility**

**Price* : 90.00 USD**

## Main

| | |
|---|---|
| **Range of product** | Harmony XB4 |
| **Product or Component Type** | Complete body/contact assembly and light block |
| **Device short name** | ZB4 |
| **Fixing collar material** | Zamak |
| **Sale per indivisible quantity** | 1 |
| **Head type** | Standard |
| **Contacts type and composition** | 1 NO + 1 NC |
| **Contact operation** | Slow-break |
| **Connections - terminals** | Screw clamp terminals, <= 2 x 1.5 mm² with cable end EN 60947-1<br>Screw clamp terminals, >= 1 x 0.22 mm² without cable end EN 60947-1 |
| **Light source** | Protected LED |
| **Bulb base** | Integral LED |
| **Light block supply** | Direct |
| **Light source colour** | Blue |
| **[Us] rated supply voltage** | 24 V AC/DC 50/60 Hz |

## Complementary

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|---|---|
| **CAD overall width** | 1.18 in (30 mm) |
| **CAD overall height** | 1.85 in (47 mm) |
| **Terminals description ISO n°1** | (11-12)NC |
| **Product Weight** | 0.16 lb(US) (0.074 kg) |
| **Contacts usage** | Standard |
| **Positive opening** | With EN/IEC 60947-5-1 appendix K |
| **Operating travel** | 0.06 in (1.5 mm) NC changing electrical state)<br>0.10 in (2.6 mm) NO changing electrical state)<br>0.17 in (4.3 mm) total travel) |
| **Operating force** | 2 N NC changing electrical state<br>2.3 N NO changing electrical state |
| **Operating torque** | 0.44 lbf.in (0.05 N.m) NO changing electrical state |

* 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

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|---|---|
| **Mechanical durability** | 5000000 cycles |
| **Tightening torque** | 7.08…10.62 lbf.in (0.8…1.2 N.m) EN 60947-1 |
| **Shape of screw head** | Cross Philips no 1<br>Cross compatible with pozidriv No 1 screwdriver<br>Slotted compatible with flat Ø 4 mm screwdriver<br>Slotted compatible with flat Ø 5.5 mm screwdriver |
| **Contacts material** | Silver alloy (Ag/Ni) |
| **Short-circuit protection** | 10 A cartridge fuse gG EN/IEC 60947-5-1 |
| **[Ith] conventional free air thermal current** | 10 A EN/IEC 60947-5-1 |
| **[Ui] rated insulation voltage** | 600 V 3)EN 60947-1 |
| **[Uimp] rated impulse withstand voltage** | 6 kV EN 60947-1 |
| **[Ie] rated operational current** | 3 A 240 V, AC-15, A600 EN/IEC 60947-5-1<br>6 A 120 V, AC-15, A600 EN/IEC 60947-5-1<br>0.1 A 600 V, DC-13, Q600 EN/IEC 60947-5-1<br>0.27 A 250 V, DC-13, Q600 EN/IEC 60947-5-1<br>0.55 A 125 V, DC-13, Q600 EN/IEC 60947-5-1<br>1.2 A 600 V, AC-15, A600 EN/IEC 60947-5-1 |
| **Electrical durability** | 1000000 cycles, AC-15, 2 A 230 V 3600 cyc/h 0.5 EN/IEC 60947-5-1 appendix C<br>1000000 cycles, AC-15, 3 A 120 V 3600 cyc/h 0.5 EN/IEC 60947-5-1 appendix C<br>1000000 cycles, AC-15, 4 A 24 V 3600 cyc/h 0.5 EN/IEC 60947-5-1 appendix C<br>1000000 cycles, DC-13, 0.2 A 110 V 3600 cyc/h 0.5 EN/IEC 60947-5-1 appendix C<br>1000000 cycles, DC-13, 0.5 A 24 V 3600 cyc/h 0.5 EN/IEC 60947-5-1 appendix C |
| **Electrical reliability** | Λ < 10exp(-6) 5 V 1 mA in clean environment EN/IEC 60947-5-4<br>Λ < 10exp(-8) 17 V 5 mA in clean environment EN/IEC 60947-5-4 |
| **Signalling type** | Steady |
| **Supply voltage limits** | 19.2…30 V DC<br>21.6…26.4 V AC |
| **Current Consumption** | 18 mA |
| **Service life** | 100000 h at rated voltage and 25 °C |
| **Surge withstand** | 1 kV IEC 61000-4-5 |
| **Device presentation** | Basic sub-assemblies |

## Environment

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|---|---|
| **Protective treatment** | TH |
| **Ambient Air Temperature for Storage** | -40…158 °F (-40…70 °C) |
| **Ambient Air Temperature for Operation** | -40…158 °F (-40…70 °C) |
| **Electrical shock protection class** | Class I IEC 60536 |
| **Standards** | UL 508<br>EN/IEC 60947-5-5<br>EN/IEC 60947-1<br>EN/IEC 60947-5-4<br>CSA C22.2 No 14<br>EN/IEC 60947-5-1<br>JIS C8201-5-1<br>JIS C8201-1 |
| **Product Certifications** | CSA<br>UL Listed<br>LROS (Lloyds register of shipping)<br>GL<br>BV<br>DNV |
| **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<br>50 gn 11 ms) half sine wave acceleration IEC 60068-2-27 |
| **Resistance to fast transients** | 2 kV IEC 61000-4-4 |

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|---|---|
| **Resistance to electromagnetic fields** | 9.14 V/m (10 V/m) IEC 61000-4-3 |
| **Resistance to electrostatic discharge** | 6 kV on contact (on metal parts) IEC 61000-2-6<br>8 kV in free air (in insulating parts) IEC 61000-2-6 |
| **Electromagnetic emission** | Class B IEC 55011 |

## Ordering and shipping details

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|---|---|
| **Category** | 22469 - PUSHBUTTON,22MM ACCESSORIES-NEW |
| **Discount Schedule** | CS2 |
| **GTIN** | 3389110893274 |
| **Nbr. of units in pkg.** | 1 |
| **Package weight(Lbs)** | 2.54 oz (72 g) |
| **Returnability** | Yes |
| **Country of origin** | FR |

## Packing Units

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|---|---|
| **Unit Type of Package 1** | PCE |
| **Package 1 Height** | 1.34 in (3.4 cm) |
| **Package 1 width** | 2.13 in (5.4 cm) |
| **Package 1 Length** | 2.20 in (5.6 cm) |
| **Unit Type of Package 2** | S02 |
| **Number of Units in Package 2** | 100 |
| **Package 2 Weight** | 16.06 lb(US) (7.283 kg) |
| **Package 2 Height** | 5.91 in (15 cm) |
| **Package 2 width** | 11.81 in (30 cm) |
| **Package 2 Length** | 15.75 in (40 cm) |
| **Unit Type of Package 3** | BB1 |
| **Number of Units in Package 3** | 5 |
| **Package 3 Weight** | 12.70 oz (360 g) |
| **Package 3 Height** | 1.34 in (3.4 cm) |
| **Package 3 width** | 2.20 in (5.6 cm) |
| **Package 3 Length** | 10.43 in (26.5 cm) |

## Offer Sustainability

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|---|---|
| **Sustainable offer status** | Green Premium product |
| **California proposition 65** | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and 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)<br>EU RoHS Declaration |
| **Mercury free** | Yes |
| **RoHS exemption information** | Yes |
| **China RoHS Regulation** | China RoHS declaration |
| **Environmental Disclosure** | Product Environmental Profile |

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|---|---|
| **Circularity Profile** | End of Life Information |
| **WEEE** | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |

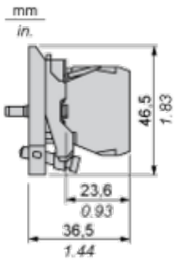
## Contractual warranty

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

# Product data sheet ZB4BW0B65

Dimensions Drawings

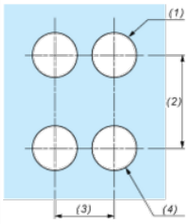
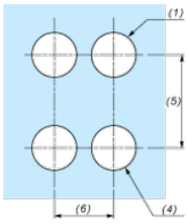
## Dimensions



# Product data sheet ZB4BW0B65

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