

# Product data sheet

Specifications



Complete body contact assembly  
and light block, Harmony XB5, XB4,  
with body fixing collar, universal  
LED, 24V 1NC

ZB5AW0B12

## Main

|                               |  |
|-------------------------------|--|
| Range Of Product              | Harmony XB5  |
| Product Or Component Type     | Complete body/contact assembly and light block   |
| Device Short Name             | ZB5  |
| Fixing Collar Material        | Plastic  |
| Sale Per Indivisible Quantity | 1  |
| Head Type                     | Standard   |
| Contacts Type And Composition | 1 NC   |
| Contact Operation             | Slow-break   |
| Connections - Terminals       | Screw clamp terminals, $\leq 2 \times 1.5 \text{ mm}^2$ with cable end conforming to IEC 60947-1<br>Screw clamp terminals, $\geq 1 \times 0.22 \text{ mm}^2$ without cable end conforming to IEC 60947-1 |
| Light Source                  | Universal LED  |
| Bulb Base                     | Integral LED   |
| Light Block Supply            | Direct   |
| Light Source Colour           | White  |

## Complementary

|                               |   |
|-------------------------------|---|
| Cad Overall Width             | 30 mm   |
| Cad Overall Height            | 42 mm   |
| Cad Overall Depth             | 32 mm   |
| Terminals Description Iso N°1 | (11-12)NC   |
| Net Weight                    | 0.032 kg  |
| Contacts Usage                | Standard  |
| Positive Opening              | With conforming to IEC 60947-5-1 appendix K   |
| Operating Travel              | 1.5 mm (NC changing electrical state)<br>4.3 mm (total travel)  |
| Operating Force               | 2 N NC changing electrical state  |
| Mechanical Durability         | 5000000 cycles  |
| Tightening Torque             | 0.8...1.2 N.m conforming to IEC 60947-1   |
| Shape Of Screw Head           | Cross compatible with Philips no 1 screwdriver<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)  |

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

|   |  |
|---|--|
| Short-Circuit Protection                    | 10 A cartridge fuse type gG conforming to IEC 60947-5-1  |
| [Ith] Conventional Free Air Thermal Current | 10 A conforming to IEC 60947-5-1   |
| [Ui] Rated Insulation Voltage               | 600 V (pollution degree 3) conforming to IEC 60947-1   |
| [Uimp] Rated Impulse Withstand Voltage      | 6 kV conforming to IEC 60947-1   |
| [Ie] Rated Operational Current              | 3 A at 240 V, AC-15, A600 conforming to IEC 60947-5-1<br>6 A at 120 V, AC-15, A600 conforming to IEC 60947-5-1<br>0.1 A at 600 V, DC-13, Q600 conforming to IEC 60947-5-1<br>0.27 A at 250 V, DC-13, Q600 conforming to IEC 60947-5-1<br>0.55 A at 125 V, DC-13, Q600 conforming to IEC 60947-5-1<br>1.2 A at 600 V, AC-15, A600 conforming to IEC 60947-5-1   |
| Electrical Durability                       | 1000000 cycles, AC-15, 2 A at 230 V, operating rate <3600 cyc/h, load factor: 0.5 conforming to IEC 60947-5-1 appendix C<br>1000000 cycles, AC-15, 3 A at 120 V, operating rate <3600 cyc/h, load factor: 0.5 conforming to IEC 60947-5-1 appendix C<br>1000000 cycles, AC-15, 4 A at 24 V, operating rate <3600 cyc/h, load factor: 0.5 conforming to IEC 60947-5-1 appendix C<br>1000000 cycles, DC-13, 0.2 A at 110 V, operating rate <3600 cyc/h, load factor: 0.5 conforming to IEC 60947-5-1 appendix C<br>1000000 cycles, DC-13, 0.5 A at 24 V, operating rate <3600 cyc/h, load factor: 0.5 conforming to IEC 60947-5-1 appendix C |
| Electrical Reliability                      | $\Lambda < 10\text{exp}(-6)$ at 5 V and 1 mA in clean environment conforming to IEC 60947-5-4<br>$\Lambda < 10\text{exp}(-8)$ at 17 V and 5 mA in clean environment conforming to IEC 60947-5-4  |
| Signalling Type                             | Steady   |
| [Us] Rated Supply Voltage                   | 24 V AC/DC at 50/60 Hz   |
| 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 conforming to IEC 61000-4-5   |
| Device Presentation                         | Basic sub-assemblies   |

## Environment

|                                       |  |
|---------------------------------------|--|
| Protective Treatment                  | TH   |
| Ambient Air Temperature For Storage   | -40...70 °C  |
| Ambient Air Temperature For Operation | -40...70 °C  |
| Electrical Shock Protection Class     | Class II conforming to IEC 60536   |
| Standards                             | IEC 60947-5-1<br>CSA C22.2 No 14<br>JIS C8201-5-1<br>IEC 60947-5-4<br>IEC 60947-1<br>UL 508<br>JIS C8201-1   |
| Product Certifications                | UL listed<br>GL<br>DNV<br>BV<br>CSA<br>LROS (Lloyds register of shipping)  |
| 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<br>50 gn (duration = 11 ms) for half sine wave acceleration conforming to IEC 60068-2-27 |
| Resistance To Fast Transients         | 2 kV conforming to IEC 61000-4-4   |

|                                       |  |
|---------------------------------------|--|
| Resistance To Electromagnetic Fields  | 10 V/m conforming to IEC 61000-4-3   |
| Resistance To Electrostatic Discharge | 6 kV on contact (on metal parts) conforming to IEC 61000-2-6<br>8 kV in free air (in insulating parts) conforming to IEC 61000-2-6 |
| Electromagnetic Emission              | Class B conforming to IEC 55011  |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type Of Package 1       | PCE      |
| Number Of Units In Package 1 | 1        |
| Package 1 Height             | 5.7 cm   |
| Package 1 Width              | 3.4 cm   |
| Package 1 Length             | 5.4 cm   |
| Package 1 Weight             | 29.0 g   |
| Unit Type Of Package 2       | S02      |
| Number Of Units In Package 2 | 100      |
| Package 2 Height             | 15 cm    |
| Package 2 Width              | 30 cm    |
| Package 2 Length             | 40 cm    |
| Package 2 Weight             | 3.172 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-CO<sub>2</sub> 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



Mercury Free



Rohs Exemption Information

Yes

Reach Regulation

[REACH Declaration](#)

Eu Rohs Directive

Pro-active compliance (Product out of EU RoHS legal scope)

China Rohs Regulation

[China RoHS declaration](#)

Weee

The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

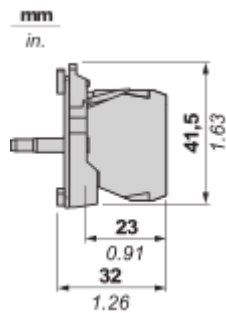
California Proposition 65

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](http://www.P65Warnings.ca.gov)

Dimensions Drawings

Dimensions

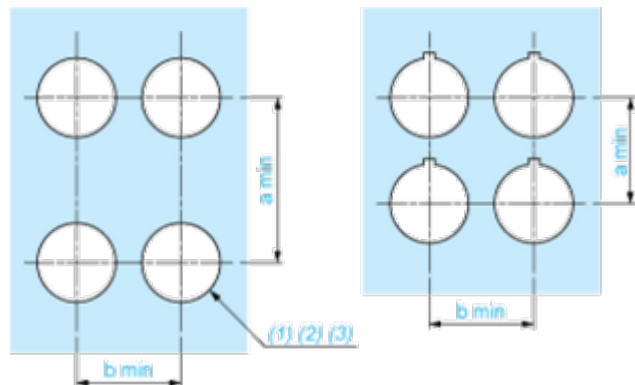
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Mounting and Clearance

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



- (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 ( $\text{Ø}22.3 \begin{smallmatrix} +0.4 \\ 0 \end{smallmatrix}$ ) / Ø0.89 in. recommended ( $\text{Ø}0.88 \text{ in. } \begin{smallmatrix} +0.016 \\ 0 \end{smallmatrix}$ )

| 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) Ø22.5 mm recommended ( $\text{Ø}22.3 \begin{smallmatrix} +0.4 \\ 0 \end{smallmatrix}$ ) / Ø0.89 in. recommended ( $\text{Ø}0.88 \text{ in. } \begin{smallmatrix} +0.016 \\ 0 \end{smallmatrix}$ )