

# ZB5AW0B13

Harmony XB5, Light block with body/fixing collar, plastic, white, integral LED, 24 V AC/DC, 2 NO



## 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 | 2 NO   |
| Contact operation             | Slow-break   |
| Connections - terminals       | Screw clamp terminals, $\leq 2 \times 1.5 \text{ mm}^2$ with cable end EN 60947-1<br>Screw clamp terminals, $>= 1 \times 0.22 \text{ mm}^2$ without cable end EN 60947-1 |
| Light source                  | Protected LED  |
| Bulb base                     | Integral LED   |
| Light block supply            | Direct   |
| Light source colour           | White  |

## Complementary

|  |  |
|--|--|
| CAD overall width  | 1.18 in (30 mm)  |
| CAD overall height                                       | 1.65 in (42 mm)  |
| CAD overall depth  | 1.26 in (32 mm)  |
| Terminals description ISO n°1                            | (13-14)NO  |
| Net Weight   | 0.09 lb(US) (0.042 kg)   |
| Contacts usage   | Standard   |
| Positive opening   | Without  |
| Operating travel   | 0.10 in (2.6 mm) NO changing electrical state<br>0.17 in (4.3 mm) total travel)  |
| Operating force  | 2.3 N NO changing electrical state   |
| Operating torque   | 0.44 lbf.in (0.05 N.m) NO changing electrical state  |
| 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 pozidriv No 1<br>Slotted flat $\varnothing$ 4 mm<br>Slotted flat $\varnothing$ 5.5 mm  |
| Contacts material  | Silver alloy (Ag/Ni)   |
| Short-circuit protection                                 | 10 A cartridge fuse gG EN/IEC 60947-5-1  |
| [I <sub>th</sub> ] conventional free air thermal current | 10 A EN/IEC 60947-5-1  |
| [U <sub>i</sub> ] rated insulation voltage               | 600 V 3)EN 60947-1   |
| [U <sub>imp</sub> ] rated impulse withstand voltage      | 6 kV EN 60947-1  |
| [I <sub>e</sub> ] 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 |

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|                           |   |
|---------------------------|---|
| 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    | $\Lambda < 10\text{exp}(-6)$ 5 V 1 mA in clean environment EN/IEC 60947-5-4<br>$\Lambda < 10\text{exp}(-8)$ 17 V 5 mA in clean environment EN/IEC 60947-5-4   |
| Signalling type           | Steady  |
| [Us] rated supply voltage | 24 V AC/DC 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 IEC 61000-4-5  |
| Device presentation       | Basic sub-assemblies  |

## Environment

|                                       |   |
|---------------------------------------|---|
| 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 II IEC 60536  |
| Standards                             | EN/IEC 60947-1<br>EN/IEC 60947-5-1<br>CSA C22.2 No 14<br>EN/IEC 60947-5-4<br>JIS C8201-5-1<br>UL 508<br>JIS C8201-1 |
| Product Certifications                | BV<br>CSA<br>DNV<br>LROS (Lloyds register of shipping)<br>UL Listed<br>GL   |
| 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  |
| 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

|                       |   |
|-----------------------|---|
| Category              | 22469 - PUSHBUTTON,22MM ACCESSORIES-NEW |
| Discount Schedule     | CS2                                     |
| GTIN                  | 3389110908374                           |
| Nbr. of units in pkg. | 1                                       |
| Package weight(Lbs)   | 1.41 oz (40 g)                          |
| Returnability         | No                                      |
| Country of origin     | FR                                      |

## Packing Units

|                              |                         |
|------------------------------|-------------------------|
| Unit Type of Package 1       | PCE                     |
| Package 1 Height             | 1.26 in (3.2 cm)        |
| Package 1 width              | 1.81 in (4.6 cm)        |
| Package 1 Length             | 1.97 in (5 cm)          |
| Unit Type of Package 2       | S03                     |
| Number of Units in Package 2 | 200                     |
| Package 2 Weight             | 17.80 lb(US) (8.072 kg) |

|                  |                  |
|------------------|------------------|
| Package 2 Height | 11.81 in (30 cm) |
| Package 2 width  | 11.81 in (30 cm) |
| Package 2 Length | 15.75 in (40 cm) |
| Package 3 Height | 2.24 in (5.7 cm) |

## Offer Sustainability

|                            |   |
|----------------------------|---|
| 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| REACH Regulation           | <a href="#">REACH Declaration</a>   |
| REACH free of SVHC         | Yes   |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>  |
| Mercury free               | Yes   |
| RoHS exemption information | <a href="#">Yes</a>   |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>  |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>   |
| Circularity Profile        | <a href="#">End Of Life Information</a>   |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.  |

## Contractual warranty

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

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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)  $\varnothing 22.5$  mm recommended ( $\varnothing 22.3_0^{+0.4}$ ) /  $\varnothing 0.89$  in. recommended ( $\varnothing 0.88$  in.  $_0^{+0.016}$ )

| 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)  $\varnothing 22.5$  mm recommended ( $\varnothing 22.3_0^{+0.4}$ ) /  $\varnothing 0.89$  in. recommended ( $\varnothing 0.88$  in.  $_0^{+0.016}$ )