# ZB5AW0B55

### orange light block with body/fixing collar with integral LED 24V 1NO+1NC

Product availability: Stock - Normally stocked in distribution facility



# 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 NO + 1 NC   |
| Contact operation             | Slow-break  |
| Connections - terminals       | Screw clamp terminals: <= 2 x 1.5 mm <sup>2</sup> with cable end conforming to EN 60947-1 Screw clamp terminals: >= 1 x 0.22 mm <sup>2</sup> without cable end conforming to EN 60947-1 |
| Light source                  | Protected LED   |
| Bulb base                     | Integral LED  |
| Light block supply            | Direct  |
| Light source colour           | Orange  |
|                               |   |

| 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               | (11-12)NC<br>(13-14)NO   |  |  |  |  |
| Product weight                              | 0.09 lb(US) (0.042 kg)   |  |  |  |  |
| Contacts usage                              | Standard   |  |  |  |  |
| Positive opening                            | With positive opening conforming to EN/IEC 60947-5-1 appendix K  |  |  |  |  |
| Operating travel                            | 0.06 in (1.5 mm) (NC changing electrical state) 0.1 in (2.6 mm) (NO changing electrical state) 0.17 in (4.3 mm) (total travel)   |  |  |  |  |
| Operating force                             | 2 N (NC changing electrical state) 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                           | 7.0810.62 lbf.in (0.81.2 N.m) conforming to EN 60947-1   |  |  |  |  |
| Shape of screw head                         | Cross head compatible with Philips no 1 screwdriver Cross head compatible with pozidriv No 1 screwdriver Slotted head compatible with flat Ø 4 mm screwdriver Slotted head compatible with flat Ø 5.5 mm screwdriver   |  |  |  |  |
| Contacts material                           | Silver alloy (Ag/Ni)   |  |  |  |  |
| Short-circuit protection                    | 10 A cartridge fuse type gG conforming to EN/IEC 60947-5-1   |  |  |  |  |
| [Ith] conventional free air thermal current | 10 A conforming to EN/IEC 60947-5-1  |  |  |  |  |
| [Ui] rated insulation voltage               | 600 V (degree of pollution: 3) conforming to EN 60947-1  |  |  |  |  |
| [Uimp] rated impulse withstand voltage      | 6 kV conforming to EN 60947-1  |  |  |  |  |
| [le] rated operational current              | 3 A at 240 V, AC-15, A600 conforming to EN/IEC 60947-5-1<br>6 A at 120 V, AC-15, A600 conforming to EN/IEC 60947-5-1<br>0.1 A at 600 V, DC-13, Q600 conforming to EN/IEC 60947-5-1<br>0.27 A at 250 V, DC-13, Q600 conforming to EN/IEC 60947-5-1<br>0.55 A at 125 V, DC-13, Q600 conforming to EN/IEC 60947-5-1 |  |  |  |  |

1.2 A at 600 V, AC-15, A600 conforming to EN/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 EN/IEC 60947-5-1 appendix C  |  |  |
|                           | 1000000 cycles, AC-15, 3 A at 120 V, operating rate: <= 3600 cyc/h, load factor:   |  |  |
|                           | 0.5 conforming to EN/IEC 60947-5-1 appendix C  |  |  |
|                           | 1000000 cycles, AC-15, 4 A at 24 V, operating rate: <= 3600 cyc/h, load factor:  |  |  |
|                           | 0.5 conforming to EN/IEC 60947-5-1 appendix C  |  |  |
|                           | 1000000 cycles, DC-13, 0.2 A at 110 V, operating rate: <= 3600 cyc/h, load factor: 0.5 conforming to EN/IEC 60947-5-1 appendix C |  |  |
|                           | 1000000 cycles, DC-13, 0.5 A at 24 V, operating rate: <= 3600 cyc/h, load factor: 0.5 conforming to EN/IEC 60947-5-1 appendix C  |  |  |
| Electrical reliability    | Λ < 10exp(-6) at 5 V, 1 mA in clean environment conforming to EN/IEC 60947-5-4   |  |  |
|                           | Λ < 10exp(-8) at 17 V, 5 mA in clean environment conforming to EN/IEC  |  |  |
|                           | 60947-5-4  |  |  |
| Signalling type           | Steady   |  |  |
| [Us] rated supply voltage | 24 V AC/DC, 50/60 Hz   |  |  |
| Supply voltage limits     | 19.230 V DC  |  |  |
|                           | 21.626.4 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   |  |  |
|                           |  |  |  |

### Environment

| Protective treatment                  | TH  |  |  |  |
|---------------------------------------|---|--|--|--|
| Ambient air temperature for storage   | -40158 °F (-4070 °C)  |  |  |  |
| Ambient air temperature for operation | -40158 °F (-4070 °C)  |  |  |  |
| Electrical shock protection class     | Class II conforming to IEC 60536  |  |  |  |
| Standards                             | UL 508 JIS C 4520 EN/IEC 60947-5-4 EN/IEC 60947-5-1 CSA C22.2 No 14 EN/IEC 60947-1  UL listed DNV LROS (Lloyds register of shipping) CSA BV RINA GL                 |  |  |  |
| Product certifications                |   |  |  |  |
| Vibration resistance                  | 5 gn (f = 2500 Hz) conforming to IEC 60068-2-6  |  |  |  |
| Shock resistance                      | 30 gn (duration = 18 ms) half sine wave acceleration conforming to IEC 60068-2-27 50 gn (duration = 11 ms) 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  | 9.14 V/yd (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 8 kV in free air (in insulating parts) conforming to IEC 61000-2-6                                     |  |  |  |
| Electromagnetic emission              | Class B conforming to IEC 55011   |  |  |  |
| Customizable                          | No  |  |  |  |
|                                       |   |  |  |  |

### Ordering and shipping details

| Category              | 22469 - PUSHBUTTON,22MM ACCESSORIES-NEW |
|-----------------------|---|
| Discount Schedule     | CS2                                     |
| GTIN                  | 00785901387886                          |
| Nbr. of units in pkg. | 1                                       |
| Package weight(Lbs)   | 8.9999999999997E-2                      |
| Returnability         | Υ                                       |
| Country of origin     | FR                                      |
|                       |   |

### Offer Sustainability

Warranty period

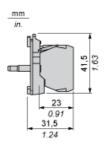
| California proposition 65 | WARNING: This product can expose you to chemicals including:   |
|---------------------------|--|
| Substance 1               | Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. |
| More information          | For more information go to www.p65warnings.ca.gov  |
| Contractual warranty      |  |

18 months

# Product data sheet Dimensions Drawings

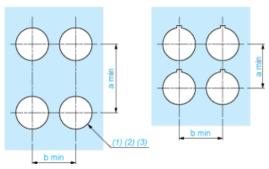
# ZB5AW0B55

### **Dimensions**



### Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

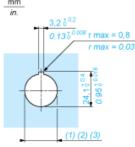
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- 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 (Ø22.3 0 +0.4) / Ø0.89 in. recommended (Ø0.88 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**



- Diameter on finished panel or support
- For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.
- Ø22.5 mm recommended (Ø22.3  $_0$  <sup>+0.4</sup>) / Ø0.89 in. recommended (Ø0.88 in.  $_0$  <sup>+0.016</sup>)

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