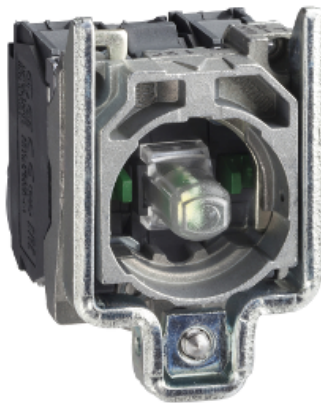


ZB4BW0M45

Light block with body/fixing collar, metal, red, integral LED, 230...240 V AC, 1 NO + 1 NC



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, $\leq 2 \times 1.5 \text{ mm}^2$ with cable end conforming to EN 60947-1 Screw clamp terminals, $\geq 1 \times 0.22 \text{ mm}^2$ without cable end conforming to EN 60947-1 |
| Light source | Protected LED |
| Bulb base | Integral LED |
| Light block supply | Direct |
| Light source colour | Red |
| [Us] rated supply voltage | 230...240 V AC at 50/60 Hz |

Complementary

| | |
|-------------------------------|---|
| CAD overall width | 30 mm |
| CAD overall height | 47 mm |
| Terminals description ISO n°1 | (11-12)NC |
| Net weight | 0.074 kg |
| Contacts usage | Standard |
| Positive opening | With conforming to EN/IEC 60947-5-1 appendix K |
| Operating travel | 1.5 mm (NC changing electrical state) 2.6 mm (NO changing electrical state) 4.3 mm (total travel) |
| Operating force | 2 N NC changing electrical state |

| | |
|--|---|
| | 2.3 N NO changing electrical state |
| Operating torque | 0.05 N.m NO changing electrical state |
| Mechanical durability | 5000000 cycles |
| Tightening torque | 0.8...1.2 N.m conforming to EN 60947-1 |
| Shape of screw head | Cross compatible with Philips no 1 screwdriver Cross compatible with pozidriv No 1 screwdriver Slotted compatible with flat Ø 4 mm screwdriver Slotted 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 |
| [I _{th}] conventional free air thermal current | 10 A conforming to EN/IEC 60947-5-1 |
| [U _i] rated insulation voltage | 600 V (pollution degree 3) conforming to EN 60947-1 |
| [U _{imp}] rated impulse withstand voltage | 6 kV EN 60947-1 |
| [I _e] rated operational current | 3 A at 240 V, AC-15, A600 conforming to EN/IEC 60947-5-1 6 A at 120 V, AC-15, A600 conforming to EN/IEC 60947-5-1 0.1 A at 600 V, DC-13, Q600 conforming to EN/IEC 60947-5-1 0.27 A at 250 V, DC-13, Q600 conforming to EN/IEC 60947-5-1 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 | $\Lambda < 10\exp(-6)$ at 5 V and 1 mA in clean environment conforming to EN/IEC 60947-5-4 $\Lambda < 10\exp(-8)$ at 17 V and 5 mA in clean environment conforming to EN/IEC 60947-5-4 |
| Signalling type | Steady |
| Supply voltage limits | 195...264 V AC |
| Current consumption | 14 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 I conforming to IEC 60536 |
| Standards | EN/IEC 60947-5-5 JIS C8201-5-1 CSA C22.2 No 14 EN/IEC 60947-5-1 UL 508 EN/IEC 60947-5-4 EN/IEC 60947-1 JIS C8201-1 |
| Product certifications | LROS (Lloyds register of shipping) UL listed RINA CSA GL DNV BV |
| 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 |
| 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 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 Weight | 74 g |
| Package 1 Height | 5.8 cm |
| Package 1 width | 5.3 cm |
| Package 1 Length | 3.7 cm |

Offer Sustainability

| | |
|----------------------------|---|
| Sustainable offer status | Green Premium product |
| REACH Regulation | REACH Declaration |
| REACH free of SVHC | Yes |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS declaration |
| Environmental Disclosure | Product Environmental Profile |
| 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

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