# Product data sheet
## Characteristics

# ZB4BZ103
Single contact block with body fixing collar, Harmony XB4, metal, screw clamp terminal, 2NO




## Main

| | |
|---|---|
| Range of product | Harmony XB4 |
| Product or component type | Complete body/contact assembly |
| Device short name | ZB4 |
| Fixing collar material | Zamak |
| Sale per indivisible quantity | 1 |
| Head type | Standard |
| Contacts type and composition | 2 NO |
| Contact operation | Slow-break |
| Contact block type | Single |
| Device composition | Body<br>Fixing collar |
| Connections - terminals | Screw clamp terminals, <= 2 x 1.5 mm² with cable end conforming to IEC 60947-1<br>Screw clamp terminals, >= 1 x 0.22 mm² without cable end conforming to IEC 60947-1 |

## Complementary

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|---|---|
| CAD overall width | 30 Mm |
| CAD overall height | 47 Mm |
| CAD overall depth | 37 Mm |
| Terminals description ISO n°1 | (13-14)NO |
| Net weight | 0.062 Kg |
| Contacts usage | Standard contacts |
| Positive opening | Without |
| Operating travel | 2.6 Mm (NO changing electrical state)<br>4.3 Mm (total travel) |
| Operating torque | 0.05 N.M NO 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) |
| 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 |

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|---|---|
| [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 | 10000000 Cycles, AC-15, 2 A at 230 V, operating rate <3600 cyc/h, load factor: 0.5 conforming to<br>10000000 Cycles, AC-15, 3 A at 120 V, operating rate <3600 cyc/h, load factor: 0.5 conforming to<br>10000000 Cycles, AC-15, 4 A at 24 V, operating rate <3600 cyc/h, load factor: 0.5 conforming to I<br>10000000 Cycles, DC-13, 0.2 A at 110 V, operating rate <3600 cyc/h, load factor: 0.5 conforming<br>10000000 Cycles, DC-13, 0.5 A at 24 V, operating rate <3600 cyc/h, load factor: 0.5 conforming to |
| Electrical reliability | Λ < 10exp(-6) at 5 V, 1 mA in clean environment conforming to IEC 60947-5-4<br>Λ < 10exp(-8) at 17 V, 5 mA in clean environment conforming to IEC 60947-5-4 |
| Device presentation | Basic sub-assemblies |

## Environment

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|---|---|
| Protective treatment | TH |
| Ambient air temperature for storage | -40…70 °C |
| Ambient air temperature for operation | -40…70 °C |
| IP degree of protection | IP20 conforming to IEC 60529 |
| Standards | JIS C8201-5-1<br>IEC 60947-1<br>IEC 60947-5-4<br>CSA C22.2 No 14<br>IEC 60947-5-1<br>IEC 60947-5-5<br>UL 508<br>JIS C8201-1 |
| Product certifications | BV[RETURN]UL[RETURN]CSA[RETURN]DNV[RETURN]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 |

## Packing Units

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|---|---|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 4.400 Cm |
| Package 1 Width | 3.400 Cm |
| Package 1 Length | 5.400 Cm |
| Package 1 Weight | 61.000 G |
| Unit Type of Package 2 | S03 |
| Number of Units in Package 2 | 200 |
| Package 2 Height | 30.000 Cm |
| Package 2 Width | 30.000 Cm |
| Package 2 Length | 40.000 Cm |
| Package 2 Weight | 12.776 Kg |
| Unit Type of Package 3 | P06 |
| Number of Units in Package 3 | 1600 |
| Package 3 Height | 75.000 Cm |
| Package 3 Width | 60.000 Cm |
| Package 3 Length | 80.000 Cm |
| Package 3 Weight | 112.444 Kg |

## Offer Sustainability

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|---|---|
| Recyclability potential, in % | 84 |
| Total lifecycle Carbon footprint | 0.6 kg CO2 eq. |
| Carbon footprint of the manufacturing phase [A1 to A3] | 0.4394571767 |
| Carbon footprint of the manufacturing phase [A1 to A3] | 0.4 kg CO2 eq. |
| Carbon footprint of the distribution phase [A4] | 0.0081078055 |
| Carbon footprint of the distribution phase [A4] | 0 kg CO2 eq. |
| Carbon footprint of the installation phase [A5] | 0.0124353025 |

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|---|---|
| Carbon footprint of the installation phase [A5] | 0 kg CO2 eq. |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 0.0521873239 |
| REACh free of SVHC | Yes |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 0.1 kg CO2 eq. |
| Toxic heavy metal free | Yes |
| Mercury free | Yes |
| Sustainable packaging | Yes |
| Carbon footprint of the end-of-life phase [C1 to C4] | 0.078423013 |
| Carbon footprint of the end-of-life phase [C1 to C4] | 0.1 kg CO2 eq. |
| Environmental Disclosure | Product Environmental Profile |
| Total lifecycle Carbon footprint | 1 |
| Average percentage of recycled plastic content | 23 % |
| Average percentage of recycled metal content | 16 % |
| Packaging made with recycled cardboard | Yes |
| Packaging without single use plastic | Yes |
| REACh Regulation | Free of Substances of Very High Concern above the threshold |
| EU RoHS Directive | Compliant |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Di-isodecyl phthalate (DIDP), |
| End of life manual availability | End Of Life Information |
| Take-back | No |
| WEEE Label | The product must be disposed on European Union markets following specific waste collection a |

## Contractual warranty

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| Warranty (in months) | 18 |

Product Life Status : Commercialised