## Product datasheet <br> Characteristics

|  | 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 | 2 NO |
|  | Contact operation | Slow-break |
|  | Connections - terminals | Screw clamp terminals: <= $2 \times 1.5 \mathrm{~mm}^{2}$ with cable end conforming to EN 60947-1 <br> Screw clamp terminals: >= $1 \times 0.22 \mathrm{~mm}^{2}$ without cable end conforming to EN 60947-1 |
|  | Light source | Bulb not included |
|  | Bulb base | BA 9s |
|  | Light block supply | Direct / <= 2.4 W |
|  | [Us] rated supply voltage | <= 250 V |

Complementary

| CAD overall width | 1.18 in ( 30 mm ) |
| :---: | :---: |
| CAD overall height | 1.85 in ( 47 mm ) |
| CAD overall depth | 1.46 in ( 37 mm ) |
| Terminals description ISO ${ }^{\circ} 1$ | (13-14)NO |
| Product weight | $0.16 \mathrm{lb}(\mathrm{US})(0.073 \mathrm{~kg})$ |
| Contacts usage | Standard |
| Positive opening | Without positive opening |
| Operating travel | 0.1 in ( 2.6 mm ) (NO changing electrical state) 0.17 in ( 4.3 mm ) (total travel) |
| Operating force | 2.3 N (NO changing electrical state) |
| Operating torque | 0.44 lbf.in ( $0.05 \mathrm{N.m}$ ) (NO changing electrical state) |
| Mechanical durability | 5000000 cycles |
| Tightening torque | 7.08...10.62 lbf.in (0.8..1.2 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 $\varnothing 4 \mathrm{~mm}$ screwdriver Slotted head compatible with flat $\varnothing 5.5 \mathrm{~mm}$ 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 $240 \mathrm{~V}, \mathrm{AC}-15$, A 600 conforming to EN/IEC 60947-5-1 6 A at $120 \mathrm{~V}, \mathrm{AC}-15, \mathrm{~A} 600$ conforming to EN/IEC 60947-5-1 0.1 A at $600 \mathrm{~V}, \mathrm{DC}-13, \mathrm{Q} 600$ conforming to EN/IEC 60947-5-1 0.27 A at $250 \mathrm{~V}, \mathrm{DC}-13, \mathrm{Q} 600$ conforming to EN/IEC 60947-5-1 0.55 A at $125 \mathrm{~V}, \mathrm{DC}-13, \mathrm{Q} 600$ conforming to EN/IEC 60947-5-1 1.2 A at $600 \mathrm{~V}, \mathrm{AC}-15, \mathrm{~A} 600$ conforming to EN/IEC 60947-5-1 |
| Electrical durability | 1000000 cycles, AC-15, 2 A at 230 V , operating rate: $<=3600 \mathrm{cyc} / \mathrm{h}$, load factor: 0.5 conforming to EN/IEC 60947-5-1 appendix C <br> 1000000 cycles, AC-15, 3 A at 120 V , operating rate: $<=3600 \mathrm{cyc} / \mathrm{h}$, load factor: 0.5 conforming to EN/IEC 60947-5-1 appendix C <br> 1000000 cycles, AC-15, 4 A at 24 V , operating rate $:<=3600 \mathrm{cyc} / \mathrm{h}$, load factor: 0.5 conforming to EN/IEC 60947-5-1 appendix C <br> 1000000 cycles, DC-13, 0.2 A at 110 V , operating rate: $<=3600 \mathrm{cyc} / \mathrm{h}$, load factor: 0.5 conforming to EN/IEC 60947-5-1 appendix C |


| Electrical reliability | $\Lambda<10 \exp (-6)$ at $5 \mathrm{~V}, 1 \mathrm{~mA}$ in clean environment conforming to EN/IEC 60947-5-4 |
| :--- | :--- |
|  | $\Lambda<10 \exp (-8)$ at $17 \mathrm{~V}, 5 \mathrm{~mA}$ in clean environment conforming to EN/IEC 60947-5-4 |
| Signalling type | Steady |

## Environment

| protective treatment | TH |
| :--- | :--- |
| ambient air temperature for storage | $-40 \ldots 158^{\circ} \mathrm{F}\left(-40 \ldots 70^{\circ} \mathrm{C}\right)$ |
| ambient air temperature for operation | $-40 \ldots 158^{\circ} \mathrm{F}\left(-40 \ldots 70^{\circ} \mathrm{C}\right)$ |
| electrical shock protection class | Class I conforming to IEC 60536 |
| standards | EN/IEC $60947-1$ |
|  | EN/IEC $60947-5-1$ |
|  | EN/IEC $60947-5-4$ |
|  | EN/IEC $60947-5-5$ |
|  | JIS C 4520 |
|  | UL 508 |
|  | CSA C22.2 No 14 |
| product certifications | BV |
|  | CSA |
|  | DNV |
|  | GL |
|  | LROS (Lloyds register of shipping) |
|  | RINA |
|  | UL listed |
|  | 5 gn (f = $2 \ldots 500 \mathrm{~Hz})$ conforming to IEC $60068-2-6$ |
| vibration resistance | 30 gn (duration $=18 \mathrm{~ms})$ half sine wave acceleration conforming to IEC $60068-2-27$ |
| shock resistance | 50 gn (duration $=11$ ms) half sine wave acceleration conforming to IEC $60068-2-27$ |

Offer Sustainability
WARNING: This product can expose you to chemicals WARNING: This product can expose you to chemicals including: including:
Lead and lead compounds, which is known to the State Lead and lead compounds, which is known to the State of California to cause cancer of California to cause cancer and birth defects or other and birth defects or other reproductive harm. reproductive harm.
For more information go to www.p65warnings.ca.gov For more information go to www.p65warnings.ca.gov

Contractual warranty
Warranty period 18 months

## Dimensions



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

| Connection by Screw Clamp Terminals or Plug-in <br> Connectors or on Printed Circuit Board | Connection by Faston Connectors |
| :--- | :--- |
|  |  |


(1) Diameter on finished panel or support
(2) 40 mm min. / 1.57 in . min.
(3) 30 mm min. / $1.18 \mathrm{in} . \mathrm{min}$.
(4) $\varnothing 22.5 \mathrm{~mm} / 0.89 \mathrm{in}$. recommended $\left(\varnothing 22.3 \mathrm{~mm} 0^{+0.4} / 0.88 \mathrm{in} .0^{+0.016}\right)$
(5) 45 mm min. / $1.78 \mathrm{in} . \mathrm{min}$.
(6) 32 mm min. / 1.26 in . min.

