

## 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       | Plug-in connector                              |
| Light source                  | Protected LED                                  |
| Bulb base                     | Integral LED                                   |
| Light block supply            | Direct                                         |
| Light source colour           | Blue                                           |
| [Us] rated supply voltage     | 110...120 V AC 50/60 Hz                        |

## Complementary

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAD overall width                           | 1.18 in (30 mm)                                                                                                                                                                                                                                                                                                                                                                                              |
| CAD overall height                          | 1.85 in (47 mm)                                                                                                                                                                                                                                                                                                                                                                                              |
| Terminals description ISO n°1               | (13-14)NO                                                                                                                                                                                                                                                                                                                                                                                                    |
| 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                                                                                                                                                                                                                                                                                                                                                                                               |
| Contacts material                           | Silver alloy (Ag/Ni)                                                                                                                                                                                                                                                                                                                                                                                         |
| Short-circuit protection                    | 4 A cartridge fuse gG EN/IEC 60947-5-1                                                                                                                                                                                                                                                                                                                                                                       |
| [Ith] conventional free air thermal current | 10 A EN/IEC 60947-5-1                                                                                                                                                                                                                                                                                                                                                                                        |
| [Ui] rated insulation voltage               | 250 V 3)EN/IEC 60947-1                                                                                                                                                                                                                                                                                                                                                                                       |
| [Uimp] rated impulse withstand voltage      | 4 kV EN 60947-1                                                                                                                                                                                                                                                                                                                                                                                              |
| [Ie] rated operational current              | 3 A 240 V, AC-15, A300 EN/IEC 60947-5-1<br>6 A 120 V, AC-15, A300 EN/IEC 60947-5-1<br>0.1 A 250 V, DC-13, R300 EN/IEC 60947-5-1<br>0.22 A 125 V, DC-13, R300 EN/IEC 60947-5-1                                                                                                                                                                                                                                |
| Electrical durability                       | 1000000 Cycles, AC-15, 1 A 230 V 3600 cyc/h 0.5 EN/IEC 60947-5-1 appendix C<br>1000000 Cycles, AC-15, 1.5 A 120 V 3600 cyc/h 0.5 EN/IEC 60947-5-1 appendix C<br>1000000 Cycles, AC-15, 3 A 24 V 3600 cyc/h 0.5 EN/IEC 60947-5-1 appendix C<br>1000000 Cycles, DC-13, 0.15 A 110 V 3600 cyc/h 0.5 EN/IEC 60947-5-1 appendix C<br>1000000 cycles, DC-13, 0.4 A 24 V 3600 cyc/h 0.5 EN/IEC 60947-5-1 appendix C |
| Electrical reliability                      | $\Lambda < 10\exp(-6)$ 5 V 1 mA in clean environment EN/IEC 60947-5-4<br>$\Lambda < 10\exp(-8)$ 17 V 5 mA in clean environment EN/IEC 60947-5-4                                                                                                                                                                                                                                                              |
| Signalling type                             | Steady                                                                                                                                                                                                                                                                                                                                                                                                       |
| Current consumption                         | 14 mA                                                                                                                                                                                                                                                                                                                                                                                                        |
| Service life                                | 100000 h at rated voltage and 25 °C                                                                                                                                                                                                                                                                                                                                                                          |
| Surge withstand                             | 1 kV IEC 61000-4-5                                                                                                                                                                                                                                                                                                                                                                                           |

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

|                     |                        |
|---------------------|------------------------|
| GTIN                | 03389110894370         |
| Package weight(Lbs) | 0.15 lb(US) (0.067 kg) |

## Packing Units

|                  |          |
|------------------|----------|
| Package 1 Height | 0.560 dm |
| Package 1 width  | 0.340 dm |
| Package 1 Length | 0.540 dm |

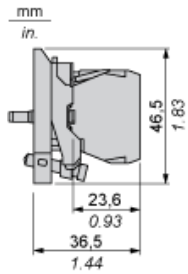
## Contractual warranty

|          |           |
|----------|-----------|
| 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                                                                                                                                                                                                                                                                                                                                                        | Connection by Faston Connectors |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                 |
| <div> <div>(1)</div> <div>Diameter on finished panel or support</div> <div>(2)</div> <div>40 mm min. / 1.57 in. min.</div> <div>(3)</div> <div>30 mm min. / 1.18 in. min.</div> <div>(4)</div> <div>Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm <sub>0</sub><sup>+0.4</sup> / 0.88 in. <sub>0</sub><sup>+0.016</sup>)</div> <div>(5)</div> <div>45 mm min. / 1.78 in. min.</div> <div>(6)</div> <div>32 mm min. / 1.26 in. min.</div> </div> |                                 |