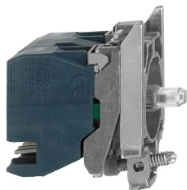


# Product data sheet

Specifications



## red light block with body/fixing collar with integral LED 110...120V 1NO+1NC

ZB4BW0G454

⚠ Discontinued on: Dec 2, 2020

⚠ End-of-service on: Dec 31, 2020

⚠ Discontinued

### 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       | Plug-in connector                              |
| Light Source                  | Protected LED                                  |
| Bulb Base                     | Integral LED                                   |
| Light Block Supply            | Direct                                         |
| Light Source Colour           | Red                                            |
| [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               | (11-12)NC                                                                                                                        |
| Contacts Usage                              | Standard                                                                                                                         |
| Positive Opening                            | With EN/IEC 60947-5-1 appendix K                                                                                                 |
| Operating Travel                            | 0.06 in (1.5 mm) NC changing electrical state<br>0.10 in (2.6 mm) NO changing electrical state<br>0.17 in (4.3 mm) total travel) |
| Operating Force                             | 2 N NC changing electrical state<br>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                                                                                                            |

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [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                             | JIS C8201-5-1<br>EN/IEC 60947-5-1<br>EN/IEC 60947-5-4<br>EN/IEC 60947-1<br>UL 508<br>CSA C22.2 No 14<br>EN/IEC 60947-5-5<br>JIS C8201-1 |
| Product Certifications                | BV<br>CSA<br>GL<br>UL Listed<br>LROS (Lloyds register of shipping)<br>DNV                                                               |
| 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 | 3389110894301 |
|------|---------------|

## Packing Units

|                              |     |
|------------------------------|-----|
| Unit Type Of Package 1       | PCE |
| Number Of Units In Package 1 | 1   |

|                  |                        |
|------------------|------------------------|
| Package 1 Height | 2.20 in (5.6 cm)       |
| Package 1 Width  | 1.34 in (3.4 cm)       |
| Package 1 Length | 2.13 in (5.4 cm)       |
| Package 1 Weight | 0.15 lb(US) (0.067 kg) |

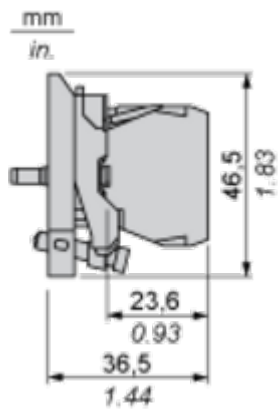
## Contractual warranty

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

Dimensions Drawings

Dimensions

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Mounting and Clearance

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 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
|                                                                                                                                                                                                                                                                                                                             |                                 |
| <p>(1) Diameter on finished panel or support</p> <p>(2) 40 mm min. / 1.57 in. min.</p> <p>(3) 30 mm min. / 1.18 in. min.</p> <p>(4) Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm <math>^{+0.4}_0</math> / 0.88 in. <math>^{+0.016}_0</math>)</p> <p>(5) 45 mm min. / 1.78 in. min.</p> <p>(6) 32 mm min. / 1.26 in. min.</p> |                                 |