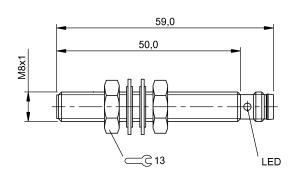
# BES M08MI-NSC15B-S49G

Order Code: BES002K













| $D_{\alpha}$ | -i- | feati | 1500 |
|--------------|-----|-------|------|
|              |     |       |      |

| Dasic leatures         |                  |  |  |
|------------------------|------------------|--|--|
| Approval/Conformity    | CE               |  |  |
|                        | UKCA             |  |  |
|                        | cULus            |  |  |
|                        | WEEE             |  |  |
| Basic standard         | IEC 60947-5-2    |  |  |
| Principle of operation | Inductive sensor |  |  |
| Trademark              | Global           |  |  |
| Display/Operation      |                  |  |  |
| Function indicator     | yes              |  |  |
| Power indicator        | no               |  |  |
|                        |                  |  |  |
| Electrical connection  |                  |  |  |

#### Electrical connection

| Connection                        | M8x1-Male, 3-pin |
|-----------------------------------|------------------|
| Polarity reversal protected       | yes              |
| Protection against device mix-ups | yes              |
| Short-circuit protection          | yes              |

### Electrical data

| Load capacitance max. at Ue       | 1 μF          |
|-----------------------------------|---------------|
| Min. operating current Im         | 0 mA          |
| No-load current lo max., damped   | 10 mA         |
| No-load current lo max., undamped | 5 mA          |
| Operating voltage Ub              | 1230 VDC      |
| Output resistance Ra              | 33.0 kOhm + D |
| Rated insulation voltage Ui       | 75 V DC       |
| Rated operating current le        | 200 mA        |
| Rated operating voltage Ue DC     | 24 V          |
| Rated short circuit current       | 100 A         |
| Ready delay tv max.               | 30 ms         |
| Residual current Ir max.          | 20 μΑ         |
| Ripple max. (% of Ue)             | 15 %          |
| Switching frequency               | 1000 Hz       |
| Utilization category              | DC -13        |
| Voltage drop static max.          | 2.5 V         |
|                                   |               |

### Environmental conditions

Switching output

| Environmental conditions |                                       |  |
|--------------------------|---------------------------------------|--|
| Ambient temperature      | -2570 °C                              |  |
| Contamination scale      | 3                                     |  |
| EN 60068-2-27, Shock     | Half-sinus, 30 g <sub>n</sub> , 11 ms |  |
| EN 60068-2-6, Vibration  | 55 Hz, amplitude 1 mm, 3x30 min       |  |
| IP rating                | IP67                                  |  |
|                          |                                       |  |
| Functional safety        |                                       |  |
| MTTF (40 °C)             | 880 a                                 |  |
|                          |                                       |  |
| Interface                |                                       |  |
|                          |                                       |  |

NPN normally open (NO)

**Inductive Sensors** 

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#### Material

Housing materialBrass, nickel-platedMaterial sensing surfacePA 12

### Mechanical data

DimensionØ 8 x 59 mmInstallationfor flush mountingMounting length50.00 mmSizeM8x1Tightening torque3 Nm

### Range/Distance

#### Remarks

The sensor is functional again after the overload has been eliminated. For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

## **Connector Drawings**



# Wiring Diagrams (Schematic)

