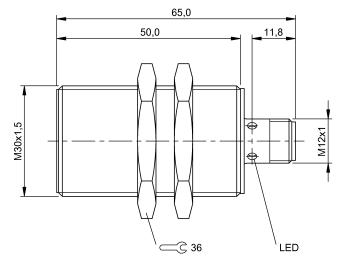
## Inductive Sensors BES M30MI-PSC15B-S04G Order Code: BES00AF

# BALLUFF



## 

### **Basic features**

| Approval/Conformity   | CE                         |
|-----------------------|----------------------------|
|                       | UKCA                       |
|                       | cULus                      |
|                       | EAC                        |
|                       | WEEE                       |
| Basic standard        | IEC 60947-5-2              |
| Trademark             | Global                     |
|                       |                            |
| Display/Operation     |                            |
| Function indicator    | yes                        |
| Power indicator       | no                         |
|                       |                            |
| Electrical connection |                            |
| Connection            | M12x1-Male, 4-pin, A-coded |

|                                   | million indiana, i pini, r a |
|-----------------------------------|------------------------------|
| Polarity reversal protected       | yes                          |
| Protection against device mix-ups | yes                          |
| Short-circuit protection          | yes                          |
|                                   |                              |

### Electrical data

| Load capacitance max. at Ue       | 0.5 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              | 1030 VDC      |
| Output resistance Ra              | 33.0 kOhm + D |
| Protection class                  | II            |
| Rated insulation voltage Ui       | 250 V AC      |
| Rated operating current le        | 200 mA        |
| Rated operating voltage Ue DC     | 24 V          |
| Rated short circuit current       | 100 A         |
| Ready delay tv max.               | 15 ms         |
| Residual current Ir max.          | 10 µA         |
| Ripple max. (% of Ue)             | 15 %          |
| Switching frequency               | 100 Hz        |
| Utilization category              | DC -13        |
| Voltage drop static max.          | 2.5 V         |
|                                   |               |

## **Environmental conditions**

Ambient temperature-25...70 °CContamination scale3EN 60068-2-27, ShockHalf-sinus, 30 g<sub>n</sub>, 11 msEN 60068-2-6, Vibration55 Hz, amplitude 1 mm, 3x30 minIP ratingIP67Functional safety640 a

Interface

Switching output

PNP normally open (NO)

Internet

eCl@ss 9.1: 27-27-01-01 ETIM 6.0: EC002714 BES00AF\_0.68\_2022-08-02

## Inductive Sensors BES M30MI-PSC15B-S04G Order Code: BES00AF

# BALLUFF

#### Material

| Ivialeria                |                           |
|--------------------------|---------------------------|
| Housing material         | Brass, Nickel-free coated |
| Material sensing surface | PA 12                     |
| Mechanical data          |                           |
| Dimension                | Ø 30 x 65 mm              |
| Installation             | for flush mounting        |
| Size                     | M30x1.5                   |
| Tightening torque        | 70 Nm                     |
|                          |                           |

### **Range/Distance**

| Assured operating distance Sa    | 12.2 mm |
|----------------------------------|---------|
| Hysteresis H max. (% of Sr)      | 15.0 %  |
| Rated operating distance Sn      | 15 mm   |
| Real switching distance sr       | 15 mm   |
| Repeat accuracy max. (% of Sr)   | 5.0 %   |
| Switching distance marking       |         |
| Temperature drift max. (% of Sr) | 10 %    |
| Tolerance Sr                     | ±10 %   |
|                                  |         |

#### **Remarks**

Flush: See installation instructions for inductive sensors with extended range 825357. 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**

