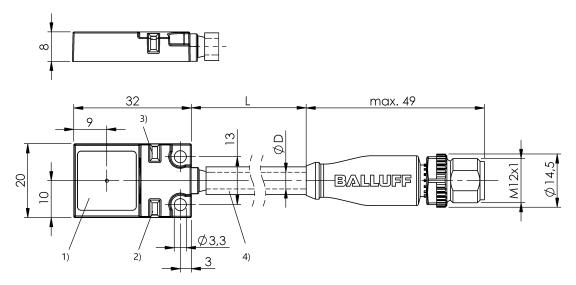
# BES R01ZC-PSC50B-BZ00,2-GS04-W13

Order Code: BES048N





1) Sensing surface, 2) LED green, 3) LED yellow, 4) Silicon tube D=7mm









| Racio | features |
|-------|----------|
| Dasic | reatures |

Connection type

Polarity reversal protected

Short-circuit protection

Protection against device mix-ups

| Dadio reatares         |                                   |
|------------------------|-----------------------------------|
| Additional features    | Housing resistant to weld spatter |
| Approval/Conformity    | CE                                |
|                        | UKCA                              |
|                        | cULus                             |
|                        | WEEE                              |
| Basic standard         | IEC 60947-5-2                     |
| Display/Operation      |                                   |
| Function indicator     | yes                               |
| Power indicator        | yes                               |
| Electrical connection  |                                   |
| Electrical conflection |                                   |
| Cable diameter D       | 3.80 mm                           |
| Cable length L         | 0.2 m                             |
| Connection             | M12x1-Male, 4-pin, A-coded        |

yes

yes

yes

Cable with connector, 0.20 m, TPU

## Electrical data

| Load capacitance max. at Ue                 | 1 μF          |
|---|---------------|
| Magnetic field strength, interference field | 100 kA/m      |
| Min. operating current Im                   | 0 mA          |
| No-load current lo max., damped             | 15 mA         |
| No-load current lo max., undamped           | 15 mA         |
| Operating voltage Ub                        | 1030 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.                         | 20 ms         |
| Residual current Ir max.                    | 80 μΑ         |
| Ripple max. (% of Ue)                       | 10 %          |
| Switching frequency                         | 100 Hz        |
| Utilization category                        | DC -13        |
| Voltage drop static max.                    | 2.5 V         |
|   |               |

## Environmental conditions

Subject to change without notice: 240658

| 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 mir       |
| IP rating               | IP67                                  |
| Magnetic field immune   | magnetic field immune (AC/DC)         |
| Functional safety       |                                       |
| MTTF (40 °C)            | 880 a                                 |

# BES R01ZC-PSC50B-BZ00,2-GS04-W13 Order Code: BES048N



#### Interface

Switching output PNP normally open (NO)

#### Material

Housing materialZinc, Die casting, partly coatedMaterial jacketTPUMaterial sensing surfaceceramic coated

#### Mechanical data

 $\begin{array}{lll} \textbf{Dimension} & 32 \times 20 \times 8 \text{ mm} \\ \\ \textbf{Installation} & \text{for flush mounting} \\ \\ \textbf{Size} & 32 \times 20 \times 8 \\ \end{array}$ 

## Range/Distance

Assured operating distance Sa 4 mm

Hysteresis H max. (% of Sr) 15.0 %

Rated operating distance Sn 5 mm

Real switching distance sr 5 mm

Repeat accuracy max. (% of Sr) 5.0 %

Temperature drift max. (% of Sr) 10 %

Tolerance Sr ±10 %

#### Remarks

Cable with silicone protective tube

LED yellow: Function

LED green: Power

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)

