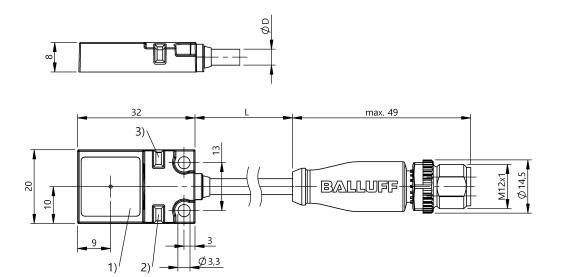
BES R01ZC-PSC70B-BZ00,2-GS04-108 Order Code: BES048Y

BALLUFF



1) Sensing surface, 2) LED green, 3) LED yellow









Polarity reversal protected

Short-circuit protection

Protection against device mix-ups

| Additional features Approval/Conformity | Housing resistant to weld spatter CE UKCA cULus WEEE |
|---|--|
| Basic standard | IEC 60947-5-2 |
| Display/Operation | |
| Function indicator Power indicator | yes yes |
| Electrical connection | , |
| Cable diameter D | 3.80 mm |
| Cable length L | 0.2 m |
| Connection | M12x1-Male, 4-pin, A-coded |
| Connection type | Cable with connector, 0.20 m, TPU |

yes

yes

yes

Electrical data

| Load capacitance max. at Ue | 1 μF |
|-----------------------------------|---------------|
| Min. operating current Im | 0 mA |
| No-load current lo max., damped | 15 mA |
| No-load current lo max., undamped | 8 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 | 150 Hz |
| Utilization category | DC -13 |
| Voltage drop static max. | 2.5 V |
| | |

Environmental conditions

| Ambient temperature | -2570 °C |
|-------------------------|---------------------------------------|
| Contamination scale | 3 |
| EN 60068-2-27, Shock | Half-sinus, 30 g _n , 11 ms |
| EN 60068-2-6, Vibration | 55 Hz, amplitude 1 mm, 3x30 min |
| IP rating | IP67 |
| Functional safety | |

755 a

MTTF (40 °C)

BES R01ZC-PSC70B-BZ00,2-GS04-108 Order Code: BES048Y



Interface

Switching output

PNP normally open (NO)

Material

Housing material

Zinc, Die casting, partly coated

Material jacket

TPU

Material sensing surface

ceramic coated

Mechanical data

 Dimension
 32 x 20 x 8 mm

 Installation
 for flush mounting

 Size
 32x20x8

Range/Distance

Assured operating distance Sa 5.6 mm

Hysteresis H max. (% of Sr) 15.0 %

Rated operating distance Sn 7 mm

Real switching distance sr 7 mm

Repeat accuracy max. (% of Sr) 5.0 %

Temperature drift max. (% of Sr) 10 %

Tolerance Sr ±10 %

Remarks

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

