



1) Sensing surface



Basic features

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|---------------------|-----------------------------|
| Approval/Conformity | cULus CE UKCA WEEE |
| Basic standard | IEC 60947-5-2 |

Display/Operation

| | |
|--------------------|-----|
| Function indicator | yes |
| Power indicator | no |

Electrical connection

| | |
|-----------------------------------|-----------------------------------|
| Cable diameter D | 3.00 mm |
| Cable length L | 0.3 m |
| Connection | M8x1-Male, 3-pin |
| Connection type | Cable with connector, 0.30 m, PUR |
| Polarity reversal protected | yes |
| Protection against device mix-ups | yes |
| Short-circuit protection | yes |

Electrical data

| | |
|-----------------------------------|--------------|
| Load capacitance max. at Ue | 0.3 µF |
| Min. operating current Im | 0 mA |
| No-load current Io max., damped | 9 mA |
| No-load current Io max., undamped | 3 mA |
| Operating voltage Ub | 10...30 VDC |
| Output resistance Ra | Open emitter |
| Rated insulation voltage Ui | 75 V DC |
| Rated operating current Ie | 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) | 10 % |
| Switching frequency | 3000 Hz |
| Utilization category | DC -13 |
| Voltage drop static max. | 2.8 V |

Environmental conditions

| | |
|-------------------------|---------------------------------|
| Ambient temperature | -25...70 °C |
| Contamination scale | 3 |
| EN 60068-2-27, Shock | Half-sinus, 30 gn, 11 ms |
| EN 60068-2-6, Vibration | 55 Hz, amplitude 1 mm, 3x30 min |
| IP rating | IP67 |

Functional safety

| | |
|--------------|-------|
| MTTF (40 °C) | 830 a |
|--------------|-------|

Inductive Sensors
BES Q08MEC-PSC15B-EP00,3-GS49
Order Code: **BES041C**



Interface

Switching output PNP normally open (NO)

Material

Housing material Brass, Nickel-free coated
Material jacket PUR
Material sensing surface PBT

Range/Distance

Assured operating distance Sa 1.2 mm
Hysteresis H max. (% of Sr) 15.0 %
Rated operating distance Sn 1.5 mm
Real switching distance sr 1.5 mm
Repeat accuracy max. (% of Sr) 5.0 %
Temperature drift max. (% of Sr) 10 %
Tolerance Sr ± 10 %

Mechanical data

Dimension 20 x 8 x 8 mm
Installation for flush mounting
Size 8x8

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

