

1) Sensing surface



Basic features

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

Display/Operation

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

Electrical connection

| | |
|-----------------------------------|-----------------------|
| Cable diameter D | 2.10 mm |
| Cable length L | 2 m |
| Conductor cross-section | 0.073 mm ² |
| Connection type | Cable, 2.00 m, PUR |
| Number of conductors | 3 |
| Polarity reversal protected | yes |
| Protection against device mix-ups | yes |
| Short-circuit protection | yes |

Electrical data

| | |
|-----------------------------------------------|----------------|
| Load capacitance max. at U _e | 0.2 μF |
| Min. operating current I _m | 1 mA |
| No-load current I _o max., damped | 3 mA |
| No-load current I _o max., undamped | 9 mA |
| Operating voltage U _b | 10...30 VDC |
| Output resistance R _a | Open collector |
| Rated insulation voltage U _i | 75 V DC |
| Rated operating current I _e | 150 mA |
| Rated operating voltage U _e DC | 24 V |
| Rated short circuit current | 100 A |
| Ready delay t _v max. | 20 ms |
| Residual current I _r max. | 10 μA |
| Ripple max. (% of U _e) | 10 % |
| Switching frequency | 3000 Hz |
| Utilization category | DC -13 |
| Voltage drop static max. | 2.5 V |

Environmental conditions

| | |
|-------------------------|---------------------------------------|
| Ambient temperature | -25...70 °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 |

Interface

| | |
|------------------|--------------------------|
| Switching output | PNP normally closed (NC) |
|------------------|--------------------------|

Inductive Sensors
BES G06E60-POC15B-EP02
Order Code: BES0251

BALLUFF

Material

| | |
|--------------------------|-----------------|
| Housing material | Stainless steel |
| Material jacket | PUR |
| Material sensing surface | PBT |

Mechanical data

| | |
|--------------|--------------------|
| Dimension | Ø 6.5 x 6 mm |
| Installation | for flush mounting |
| Size | D6.5 |

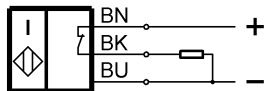
Range/Distance

| | |
|----------------------------------|--------|
| 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 % |

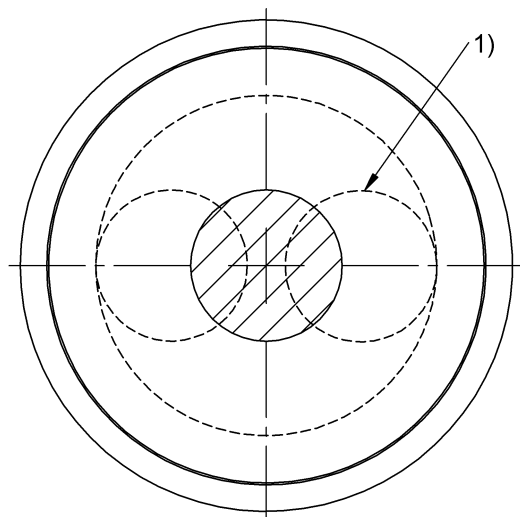
Remarks

For mounting and installation see Accessories section
Max. pull force on cable 10 N.
EMC: EMC protection circuit required, see 825345. IVW: 2.2
The sensor is functional again after the overload has been eliminated.

Wiring Diagrams



Help Views



1) Cable outlet eccentric poss.