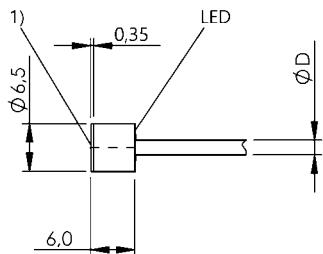


Inductive Sensors  
BES G06E60-PSC15B-EP02  
Order Code: BES0256

**BALLUFF**



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 <sup>2</sup>
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 Ue	0.2 µF
Min. operating current I <sub>m</sub>	1 mA
No-load current I <sub>o</sub> max., damped	9 mA
No-load current I <sub>o</sub> max., undamped	3 mA
Operating voltage U <sub>b</sub>	10...30 VDC
Output resistance R <sub>a</sub>	Open collector
Rated insulation voltage U <sub>i</sub>	75 V DC
Rated operating current I <sub>e</sub>	150 mA
Rated operating voltage U <sub>e</sub> DC	24 V
Rated short circuit current	100 A
Ready delay t <sub>v</sub> max.	20 ms
Residual current I <sub>r</sub> max.	10 µA
Ripple max. (% of U <sub>e</sub> )	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 <sub>n</sub> , 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP67

#### Functional safety

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

Interface

Switching output PNP normally open (NO)

Material

Housing material Stainless steel  
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 Ø 6.5 x 6 mm  
Installation for flush mounting  
Size D6.5

Remarks

The sensor is functional again after the overload has been eliminated.

For mounting and installation see Accessories section

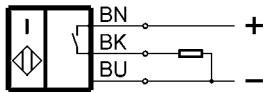
Max. pull force on cable 10 N.

EMC: EMC protection circuit required, see 825345. IVW: 2.2

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.

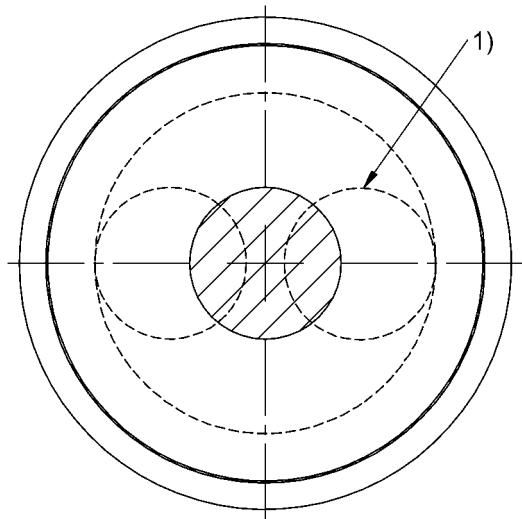
Wiring Diagrams



Inductive Sensors  
BES G06E60-PSC15B-EP02  
Order Code: BES0256

**BALLUFF**

Help Views



1)Cable outlet eccentric poss.