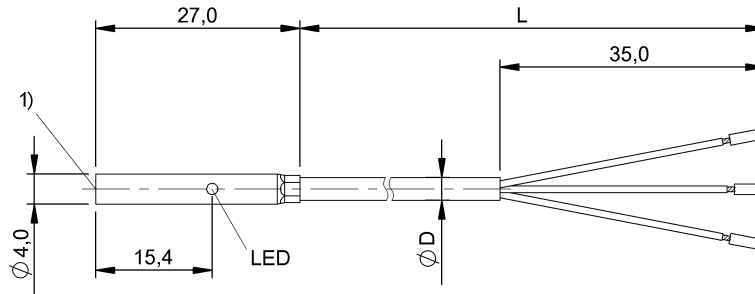


**BES 516-3017-G-E4-C-PU-05**  
**Ordering code: BES00K6**

Inductive sensor  
 D04.0x27 mm  
 Small housing

DC, direct current  
 PNP/Normally closed (NC)  
 Sn = 1,5 mm  
 Flush (shielded)

**BALLUFF**  
*sensors worldwide*



**Characteristic data**

Eff. switching distance Sr	1,5 mm
Tolerance Sr	±10 %
Assured operating distance Sa	1,2 mm
Hysteresis H max. (in % of Sr)	15 %
Repeat accur. R max. (% of Sr)	5 %
Ambient temperature	-25...70 °C
Temp. drift max. (% of Sr)	10%
Switching freq. f max.	3000 Hz
Ready delay tv max.	25 ms
Utilisation category	DC 13
Function indicator	Yes
Power-on indicator	No
Short-circuit protected	Yes
Degree of protection as per IEC 60529	IP67
Protected against polarity reversal	Yes
Protected against reverse connection	Yes

**Electrical data**

Operating voltage	
Rated operating voltage Ue DC	24 V
Ripple max. (% of Ue)	10 %
Voltage drop static max.	3 V
Rated insulation voltage Ui	75 DC V
Effective operating current Ie	100 mA
No-load current Io damped	10 mA
No-load current Io undamped	3 mA
Off-state current Ir max.	80 µA
Minimum operating current Im	0 mA

Rated short circuit current	100 A
Output resistance Ra	Open collector
Load capacitance max. (at Ue)	0,2 µF
Principle of operation	Inductive

**Mechanical data**

Housing material	Stainless steel
Sensing surface material	PBT
Tightening torque max.	1 Nm
Connection type	Cable
Cable jacket material	PUR
Cable diameter D max.	3 mm
Cable short designation	LiFY11Y-O
Cable length	5 m
Number of conductors	3
Conductor cross-section	0.14 mm <sup>2</sup>
Shock rating	Shock, half-sinus, 30 gn, 11ms
Vibration rating	55 Hz, 1 mm ampl., 3x30 min
Degree of contamination	3

**Basic data**

Basic standard	IEC 60947-5-2
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**Remarks**

When using an AC bridge, an electrolytic capacitor ≥ 10µF/40V parallel to Ub is recommended.  
 The sensor is functional again after the overload has been eliminated.  
 Embeddable: See installation notes for inductive sensors with extended switching distance 825357.



Definitions see main catalog

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