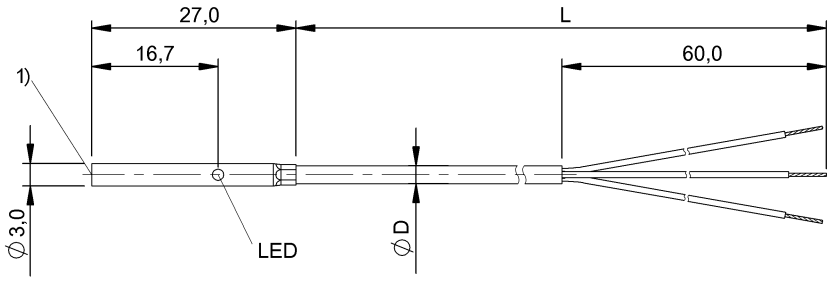
BES 516-3044-G-E4-C-PU-02
Ordering code: BES00M3

Inductive sensor
D03.0x27 mm
Small housing

DC, direct current
PNP/Normally open (NO)
Sn = 1 mm
Flush (shielded)

BALLUFF
sensors worldwide



Characteristic data

Eff. switching distance Sr	1 mm
Tolerance Sr	±10 %
Assured operating distance Sa	0,8 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.	2000 Hz
Ready delay tv max.	10 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.	2,5 V
Rated insulation voltage Ui	75 DC V
Effective operating current Ie	100 mA
No-load current Io damped	12 mA
No-load current Io undamped	9 mA
Off-state current Ir max.	50 µA
Minimum operating current Im	0 mA
Rated short circuit current	100 A
Output resistance Ra	Open emitter
Principle of operation	Inductive

Mechanical data

Housing material	Stainless steel
Sensing surface material	POM
Connection type	Cable
Cable jacket material	PUR
Cable diameter D max.	2,4 mm
Cable short designation	LiFY11Y-O
Cable length	2 m
Number of conductors	3
Conductor cross-section	0.09 mm²
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

Remarks

The sensor is functional again after the overload has been eliminated.
EMC: EMC protection circuit needed, see 825345. Burst: 1.2 IVW: 2.2
ESD: EN 61000-4-2, 2 kV contact discharge

CE

Definitions see main catalog

subject to change

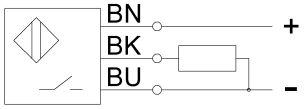
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