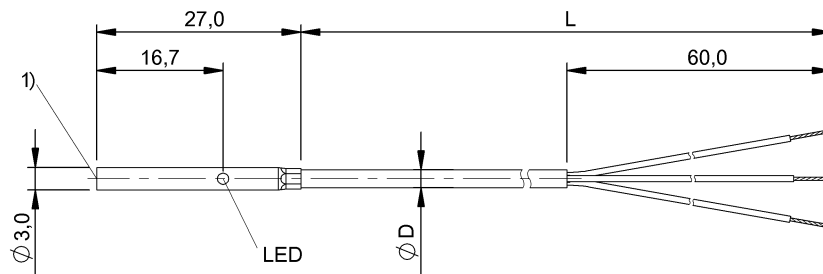


BES 516-3044-G-E4-C-PU-02
Ordering code: BES00M3

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 S_r	1 mm
Tolerance S_r	$\pm 10\%$
Assured operating distance S_a	0,8 mm
Hysteresis H max. (in % of S_r)	15 %
Repeat accur. R max. (% of S_r)	5 %
Ambient temperature	-25...70 °C
Temp. drift max. (% of S_r)	10%
Switching freq. f max.	2000 Hz
Ready delay t_v 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 U_e DC	24 V
Ripple max. (% of U_e)	10 %
Voltage drop static max.	2,5 V
Rated insulation voltage U_i	75 DC V
Effective operating current I_e	100 mA
No-load current I_0 damped	12 mA
No-load current I_0 undamped	9 mA

Off-state current I_r max.	50 μ A
Minimum operating current I_m	0 mA
Rated short circuit current	100 A
Output resistance R_a	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 mm ²
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

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



Definitions see main catalog

subject to change

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