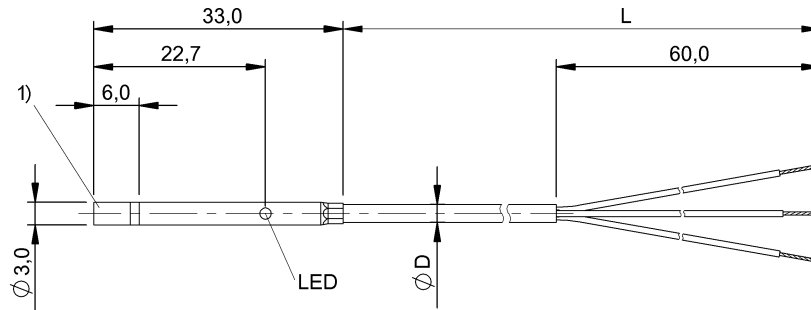


BES 516-3048-G-E4-C-PU-02
Ordering code: BES00ME

Inductive sensor
D03.0x33 mm
Long range
Small housing

DC, direct current
PNP/Normally open (NO)
Sn = 3 mm
Non embeddable

BALLUFF
sensors worldwide



Characteristic data

Eff. switching distance S_r	3 mm
Tolerance S_r	$\pm 10\%$
Assured operating distance S_a	2,3 mm
Hysteresis H max. (in % of S_r)	20 %
Repeat accur. R max. (% of S_r)	15 %
Ambient temperature	0...70 °C
Temp. drift max. (% of S_r)	15%
Switching freq. f max.	3000 Hz
Ready delay t_v max.	20 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	50 mA
No-load current I_o damped	10 mA
No-load current I_o undamped	8 mA
Off-state current I_r max.	10 μ A
Minimum operating current I_m	0 mA

Rated short circuit current	100 A
Output resistance R_a	Open emitter
Load capacitance max. (at U_e)	0,5 μ F
Principle of operation	Inductive

Mechanical data

Housing material	Stainless steel
Sensing surface material	PET-C
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
----------------	---------------

Remarks

The sensor is functional again after the overload has been eliminated.
Non-flush mounting (unshielded): See installation instructions for inductive sensors with extended range 843281. Avoid pressure and contact in the area of the clear zone cap.
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

BES 516-3048-G-E4-C-PU-02
Ordering code: BES00ME

Inductive sensor
D03.0x33 mm
Long range
Small housing

DC, direct current
PNP/Normally open (NO)
Sn = 3 mm
Non embeddable

BALLUFF
sensors worldwide

subject to change

