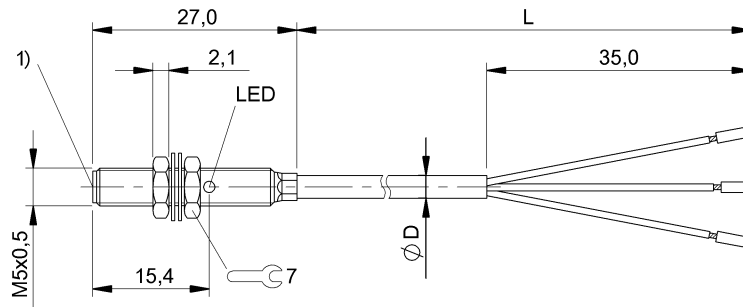


BES 516-3005-E4-C-PU-05
Ordering code: BES00FU

Inductive sensor
M05x27 mm
Miniature

DC, direct current
PNP/Normally open (NO)
Sn= 0,8 mm
Flush (shielded)

BALLUFF
sensors worldwide



1) Active surface

Characteristic data

Assured operating distance Sa	0,65
Eff. switching distance Sr	0,8 mm
Tolerance Sr	-10 % / +40 %
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 indicator	No
Short-circuit protected	Yes
Protected against polarity reversal	Yes
Protected against miswiring	Yes
Enclosure Type per IEC 60529	IP67
Principle of operation	Inductive

Electrical data

Operating voltage	10...30 V DC
Ripple max. (% of Ue)	10
Rated operating voltage Ue DC	24 V
Voltage drop static max.	3 V
Rated insulation voltage Ui	75 DC
Effective operating current Ie	100 mA
No-load current Io damped max.	10 mA
Max. no-load cur. Io undamped	3 mA

Off-state current Ir max.	80 µA
Minimum operating current Im	1 mA
Rated short circuit current	100 A
Output resistance Ra	Open collector
Load capacitance max. (at Ue)	0,2 µF

Mechanical data

Connection type	Cable
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 ²
Housing material	Stainless steel
Sensing surface material	PBT
Cable jacket material	PUR
Shock rating	Shock, half-sinus, 30 gn, 11ms
Vibration rating	55 Hz, 1 mm ampl., 3x30 min
Degree of contamination	3
Tightening torque	1 Nm

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.

