

BES 516-3008-G-E4-C-PU-05

Order code: BES00JY

Inductive sensor

D04.0 x 27,0 mm

DC, direct current

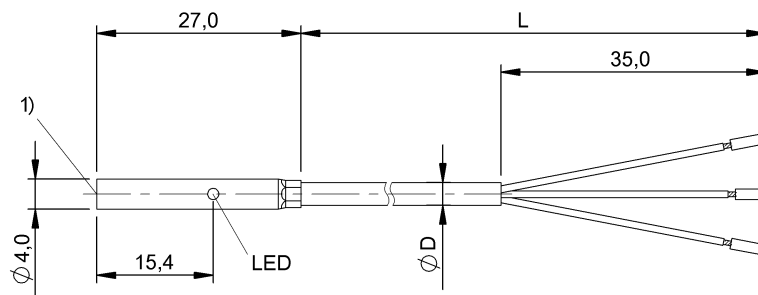
NPN / Normally open (NO)

Sn = 1,50 mm

Flush (shielded) ■■

BALLUFF

sensors worldwide



1) Active surface

Sensing data

Eff. operating distance Sr	1,50 mm
Tolerance Sr	±10 %
Assured operating distance Sa	1,20 mm
Hysteresis H max. (in % of Sr)	15,0 %
Repeat accur. R max. (% of Sr)	5,0 %
Ambient temperature Ta min.	-25 °C
Ambient temperature Ta max.	70 °C
Temp. drift max. (% of Sr)	10%
Switching freq. f max. (at Ue)	1.800 Hz
Ready delay tv max.	25 ms
Utilization category	DC 13
Function indicator	Yes
Power indicator	No

Electrical data

Eff. operating voltage Ue DC	24,0 V
Operating voltage UB min. DC	10,0 V
Operating voltage UB max. DC	30,0 V
Ripple max. (% of Ue)	10 %
Voltage drop static max.	3,0 V
Rated insulation voltage Ui	75 DC
Eff. operating current Ie	100 mA
Minimum operating current Im	0 mA
No-load current Io damped max.	10,0 mA
Max. no-load cur. Io undamped	3,0 mA
Off-state current Ir max.	80 µA
Short circuit protected	Yes
Protected against miswiring	Yes
Polarity reversal protected	Yes
Rated short circuit current	100 A
Output resistance Ra	Open collector

Load capacitance max. (at Ue)

0,200 µF

Mechanical data

Housing material	Stainless steel
Sensing face material	PBT
Connection type	Cable
Cable jacket material	PUR
Cable diameter D max.	3,0 mm
Cable short description	LiFY11Y-O
Cable length	5,00 m
Number of conductors	3
Conductor cross-section	0.14 mm²
Enclosure Type per IEC 60529	IP67
Shock rating	Shock, half-sinus, 30 gn, 11ms
Vibration rating	55 Hz, 1 mm ampl., 3x30 min
Degree of contamination	3

Approval

Approvals / Conformity	CE cULus
------------------------	-------------

Remarks

When using an AC bridge, an electrolytic capacitor $\geq 10\mu\text{F}/40\text{V}$ 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.

EMC: Surge immunity; external protection circuit required.

Document 825345, Section 2.

Basic standard IEC 60947-5-2

000000111880/141941/20100804



BES 516-3008-G-E4-C-PU-05

Order code: BES00JY

Inductive sensor

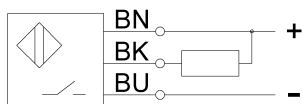
D04.0 x 27,0 mm

DC, direct current
NPN / Normally open (NO)
Sn = 1,50 mm
Flush (shielded) ■■

BALLUFF
sensors worldwide

Definitions see general catalog

Subject to change without notice.



00000011880/141941/20100804