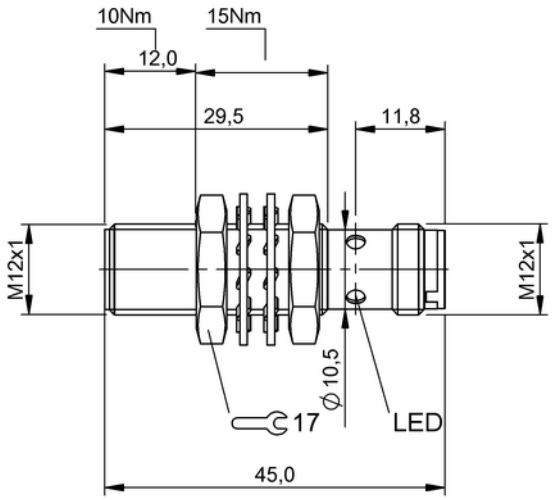
BES 516-325-G-E5-C-S4
Order code: BES00PY

Inductive sensor

M12x1 x 45.0 mm

DC, direct current
PNP / Normally open (NO)
Sn = 4.00 mm
Flush (shielded) ■■



Sensing data

Eff. operating distance Sr	4.00 mm
Tolerance Sr	±10 %
Assured operating distance Sa	3.20 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)	2,000 Hz
Ready delay tv max.	21 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)	15 %
Voltage drop static max.	2.5 V
Rated insulation voltage Ui	250 VAC
Eff. operating current Ie	200 mA
Minimum operating current Im	0 mA
No-load current Io damped max.	6.0 mA
Max. no-load cur. Io undamped	3.0 mA
Off-state current Ir max.	10 µA
Short circuit protected	Yes
Protected against miswiring	Yes
Polarity reversal protected	Yes
Rated short circuit current	100 A
Output resistance Ra	33.0k + D
Load capacitance max. (at Ue)	0.500 µF

Mechanical data

Housing material	CuZn
Surface protection	Nickel-free coating
Tightening torque	10 Nm / 15 Nm
Sensing face material	LCP
Mounting length	30.0 mm
Connection type	Connector
Connector type	M12x1-S04
Degree of protec. per IEC60529	IP68 according to BWN PR 20
Protection Class	II
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

The sensor is functional again after the overload has been eliminated.

Basic standard	IEC 60947-5-2

IND. CONT. EQ
81U2
for use in the secondary of
a class 2 source of supply
Environmental - Type 1 Enclosure

Definitions see general catalog

0000001180 78/218998/20140721

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Balluff China: +86 21 5089 9970

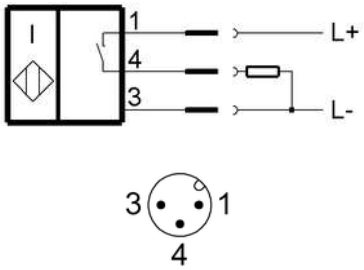
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Subject to change without notice.



0000000118078/218998/20140721