

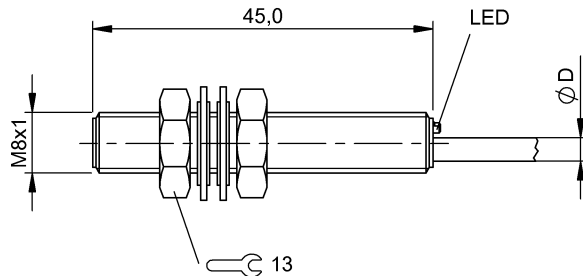
BES 516-324-EO-C-03
Order code: BES01A8

Inductive sensor

M08x1 x 45.0 mm

DC, direct current
PNP / Normally open (NO)
Sn = 1.50 mm
Flush (shielded)

BALLUFF
sensors worldwide



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)	3,000 Hz
Ready delay tv max.	20 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 AC
Eff. operating current Ie	200 mA
Minimum operating current Im	0 mA
No-load current Io damped max.	9.0 mA
Max. no-load cur. Io undamped	3.0 mA
Off-state current Ir max.	20 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	Stainless steel
Tightening torque	8 Nm
Sensing face material	PBT
Mounting length	44.0 mm
Connection type	Cable
Cable jacket material	PVC
Cable diameter D max.	3.0 mm
Cable short description	LiY-Y-O
Cable length	3.00 m
Number of conductors	3
Conductor cross-section	0.14 mm ²
Enclosure Type per IEC 60529	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
----------------	---------------



Definitions see general catalog

Internet : www.balluff.com
Balluff Germany : +49 (0) 7158 173-0, 173-370
Balluff USA : 1-800-543-8390
Balluff China : +86 (0) 21-50 644131

1 (2)
Print Date: 26.10.2011
Selection date: 26.10.2011

000000111880/166064/20100804

BES 516-324-EO-C-03

Order code: BES01A8

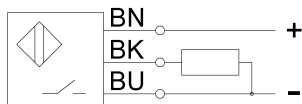
Inductive sensor

M08x1 x 45.0 mm

DC, direct current
PNP / Normally open (NO)
Sn = 1.50 mm
Flush (shielded)

BALLUFF
sensors worldwide

Subject to change without notice.



000000111880/166064/20100804