



Display/Operation

Function indicator	yes
Power indicator	no

Electrical connection

Connection	M12x1-Male, 4-pole, A-coded
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Contamination scale	3
Hysteresis H max. (% of Sr)	15.0 %
Load capacitance max. at Ue	0.5 µF
No-load current I ₀ undamped max.	10 mA
Operating voltage U _b	10...30 VDC
Output resistance R _a	33.0 kOhm + D
Polarity reversal protected	yes
Protection class	II
Rated insulation voltage U _i	250 V AC
Rated operating current I _e	200 mA
Rated operating voltage U _e DC	24 V
Rated short circuit current	100 A
Ready delay t _v max.	15 ms
Repeat accuracy max. (% of Sr)	5.0 %
Residual current I _r max.	10 µA
Ripple max. (% of U _e)	15 %
Switching frequency	100 Hz
Utilization category	DC-13
Voltage drop static max.	2.5 V

Environmental conditions

Ambient temperature	-25...70 °C
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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

IP rating per IEC 60529

IP67

Functional safety

MTTF (40 °C)	640 a
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General data

Approval/Conformity	CE cULus EAC
Basic standard	IEC 60947-5-2
Trademark	Global

Material

Housing material	Brass
Material sensing surface	PA 12
Surface protection	nickel-free coated

Mechanical data

Dimension	Ø 30 x 65 mm
Installation	for flush mounting
Size	M30x1.5
Tightening torque	70 Nm

Output/Interface

Switching output	PNP Normally closed (NC)
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Range/Distance

Assured operating distance S _a	12.2 mm
Effective operating distance S _r	15 mm
Rated operating distance S _n	15 mm

For definitions of terms, see main catalog
Subject to change without notice

eCI@ss 9.1: 27-27-01-01
ETIM 6.0: EC002714
BES009U_0.25_2017-06-23

Inductive Sensors
BES M30MI-POC15B-S04K
Ordercode: BES009U

BALLUFF

Switching distance marking ■■
Temperature drift max. (% of Sr) 10 %

For further information on MTTF/B10d, please refer to the MTTF / B10d Certificate.

Specification of the MTTF value and the B10d value do not represent any binding quality and/or life expectancy guarantees.

Remarks

Shielded: See installation instructions for inductive sensors with extended range 825357.
The sensor is functional again after the overload has been eliminated.

Connector view



Wiring Diagram

