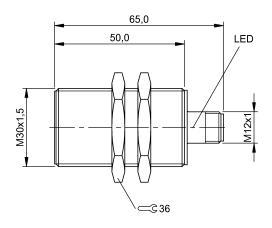
## Inductive Sensors BES M30MI-NSC15B-S04K Order Code: BES009J

# BALLUFF



#### 

### **Basic features**

Approval/Conformity	CULUS CE UKCA WEEE
Basic standard	IEC 60947-5-2
Trademark	Global
Display/Operation	
Function indicator	yes
Power indicator	no
Electrical connection	

Connection	M12x1-Male, 4-pin, A-coded
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

### Electrical data

Load capacitance max. at Ue	0.5 µF
Min. operating current Im	0 mA
No-load current lo max., damped	10 mA
No-load current lo max., undamped	5 mA
Operating voltage Ub	1030 VDC
Output resistance Ra	33.0 kOhm + D
Protection class	II
Rated insulation voltage Ui	250 V AC
Rated operating current le	200 mA
Rated operating voltage Ue DC	24 V
Rated short circuit current	100 A
Ready delay tv max.	15 ms
Residual current Ir max.	10 µA
Ripple max. (% of Ue)	15%
Switching frequency	100 Hz
Utilization category	DC -13
Voltage drop static max.	2.5 V

### Environmental conditions

Ambient temperature	-2570 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 g <sub>n</sub> , 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP67
Functional safety	

MTTF (40 °C)

Interface

Switching output

NPN normally open (NO)

Internet

eCl@ss 9.1: 27-27-01-01 ETIM 6.0: EC002714 BES009J\_0.88\_2024-05-31

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# Inductive Sensors BES M30MI-NSC15B-S04K Order Code: BES009J

# BVLLAL

### Material

Material	
Housing material	Brass, Nickel-free coated
Material sensing surface	PA 12
Mechanical data	
Dimension	Ø 30 x 65 mm
Installation	for flush mounting
Mounting length	50.00 mm
Size	M30x1.5
Tightening torque	70 Nm

### Range/Distance

Assured operating distance Sa	12.2 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	15 mm
Real switching distance sr	15 mm
Repeat accuracy max. (% of Sr)	5.0 %
Switching distance marking	
Temperature drift max. (% of Sr)	10 %
Tolerance Sr	±10 %

### Remarks

Flush: See installation instructions for inductive sensors with extended range 825357. The sensor is functional again after the overload has been eliminated. For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

### **Connector Drawings**



### Wiring Diagrams

