



1) Housing rotatable 304°, 2) Tightening torque 1...1.5 Nm, 3) Tightening torque 16.5 Nm



### Basic features

Approval/Conformity	cULus CE EAC WEEE
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### Electrical connection

Connection	M12x1-Male, 4-pin, A-coded
Protection against device mix-ups	yes

### Electrical data

Load capacitance max. at Ue	1 µF
Min. operating current Im	0 mA
No-load current Io max., damped	18 mA
No-load current Io max., undamped	10 mA
Operating voltage Ub	10...30 VDC
Output resistance Ra	33.0 kOhm + D
Rated insulation voltage Ui	75 V DC
Rated operating current Ie	200 mA
Rated operating voltage Ue DC	24 V
Ready delay tv max.	40 ms
Residual current Ir max.	80 µA
Ripple max. (% of Ue)	15 %
Switching frequency	10 Hz
Utilization category	DC -13
Voltage drop static max.	2.5 V

### Environmental conditions

Ambient temperature	-25...70 °C
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Inductive Sensors  
**BES 516-300-S295/1.025"-S4**  
Order Code: BHS003J

**BALLUFF**

**Functional safety**

MTTF (40 °C) 640 a

**Material**

Material sensing surface Ceramic

**Mechanical data**

Dimension 51 x 48 x 26.04 mm  
Pressure rating, note oil pressure rated  
Size D12.7

**Output/Interface**

Switching output PNP normally open (NO)

**Range/Distance**

Assured operating distance Sa 1.6 mm  
Rated operating distance Sn 2 mm  
Real switching distance sr 2 mm

**Remarks**

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

LED 1: Function

LED 2: Operating voltage

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**

