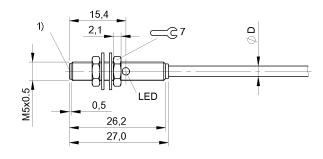
## Inductive Sensors BES 516-3005-G-E4-C-PU-02 Order Code: BES00H3

# BALLUFF



#### 1) Sensing surface





#### **Basic features**

Approval/Conformity	cULus
	CE
	UKCA
	WEEE
Basic standard	IEC 60947-5-2
Diaplay/Operation	

#### Display/Operation

Function indicator	yes
Power indicator	no

#### **Electrical connection**

Cable diameter D	3.00 mm
Cable length L	2 m
Conductor cross-section	0.14 mm <sup>2</sup>
Connection type	Cable, 2.00 m, PUR
Number of conductors	3
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

#### Electrical data

Load capacitance max. at Ue	1μF	
Min. operating current Im	0 mA	
No-load current lo max., damped	6 mA	
No-load current lo max., undamped	2 mA	
Operating voltage Ub	1030 VDC	
Output resistance Ra	Open drain	
Rated insulation voltage Ui	75 V DC	
Rated operating current le	100 mA	
Rated operating voltage Ue DC	24 V	
Rated short circuit current	100 A	
Ready delay tv max.	21 ms	
Residual current Ir max.	10 µA	
Ripple max. (% of Ue)	10 %	
Switching frequency	5000 Hz	
Utilization category	DC -13	
Voltage drop static max.	2 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)

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## Inductive Sensors BES 516-3005-G-E4-C-PU-02 Order Code: BES00H3



Interface		Range/Distance	
Switching output Material	PNP normally open (NO)	Assured operating distance Sa Hysteresis H max. (% of Sr) Rated operating distance Sn	1.21 mm 15.0 % 1.5 mm
Housing material Material jacket Material sensing surface Mechanical data	Stainless steel PUR PBT	Real switching distance sr Repeat accuracy max. (% of Sr) Switching distance marking Temperature drift max. (% of Sr) Tolerance Sr	1.5 mm 5.0 % ■■ 10 % ±10 %
Dimension Installation Mounting length Size Tightening torque Remarks	Ø 5 x 27 mm for flush mounting 26.00 mm M5x0.5 1 Nm		

The sensor is functional again after the overload has been eliminated. EMC: Surge resistance

External protection circuit is required. Document 825345, Section 2.

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.

## Wiring Diagrams (Schematic)

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