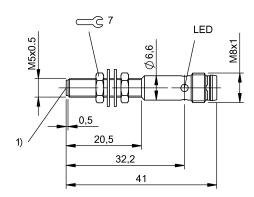
# BES 516-3005-G-E5-C-S49

**Order Code: BES00HF** 





### 1) Sensing surface









### **Basic features**

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

### Display/Operation

Function indicator	yes
Power indicator	no

### **Electrical connection**

Connection	M8x1-Male, 3-pin
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

### **Electrical data**

Load capacitance max. at Ue	1 μF
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 μΑ
Ripple max. (% of Ue)	10 %
Switching frequency	5000 Hz
Utilization category	DC -13
Voltage drop static max.	2 V

### **Environmental conditions**

MTTF (40 °C)

Subject to change without notice: 223509

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	

305 a

### **Inductive Sensors**

# BES 516-3005-G-E5-C-S49 **Order Code: BES00HF**



### **Interface**

Switching output PNP normally open (NO)

### Material

Housing material Stainless steel PBT

Material sensing surface

### Mechanical data

Dimension Ø 5 x 41 mm Installation for flush mounting

M5x0.5 Size Tightening torque 1 Nm

### Range/Distance

Assured operating distance Sa Hysteresis H max. (% of Sr) Rated operating distance Sn Real switching distance sr Repeat accuracy max. (% of Sr) Switching distance marking Temperature drift max. (% of Sr) **Tolerance Sr** 

1.21 mm 15.0 % 1.5 mm 1.5 mm 5.0 % 

10 % ±10 %

### Remarks

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.

# **Connector Drawings**



## **Wiring Diagrams**

