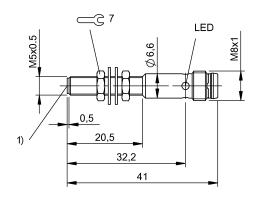
BES 516-3005-G-E5-C-S49

Order Code: BES00HF





1) Sensing surface









Basic features

20010100100		
Approval/Conformity	cULus CE UKCA WEEE	
Basic standard	IEC 60947-5-2	
Principle of operation	Inductive sensor	
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

Ambient temperature	-2570 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 g _n , 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP67
Functional safety	
MTTF (40 °C)	305 a

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±10 %

Interface

Switching output PNP normally open (NO)

Material

Housing materialStainless steelMaterial sensing surfacePBT

Mechanical data

DimensionØ 5 x 41 mmInstallationfor flush mountingMounting length20.00 mmSizeM5x0.5Tightening torque1 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 %

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 (Schematic)

