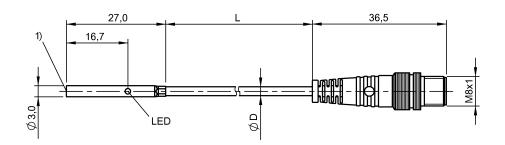
BES 516-3044-G-E4-C-S49-00,3

Order Code: BES00M5





1) Sensing surface









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Das	SIC	features

Polarity reversal protected

Short-circuit protection

Protection against device mix-ups

Approval/Conformity	cULus CE UKCA WEEE	
Basic standard	IEC 60947-5-2	
Display/Operation		
Function indicator	yes	
Power indicator	no	
Electrical connection		
Cable diameter D	2.40 mm	
Cable length L	0.3 m	
Connection	M8x1-Male, 3-pin	
Connection type	Cable with connector, 0.30 m, PUR	

yes

yes

yes

Electrical data

Load capacitance max. at Ue	0.15 μF
Min. operating current Im	0 mA
No-load current lo max., damped	5 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.	25 ms
Residual current Ir max.	10 μΑ
Ripple max. (% of Ue)	10 %
Switching frequency	3500 Hz
Utilization category	DC -13
Voltage drop static max.	2 V

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

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Interface

Switching output PNP normally open (NO)

Material

Housing material Stainless steel PUR Material jacket PBT Material sensing surface

Mechanical data

Dimension Ø 3 x 27 mm Installation for flush mounting Size D3.0

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

0.8 mm 15.0 % 1 mm 1 mm 5.0 %

10 % ±10 %

Remarks

EMC: Surge resistance

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

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

The temperature drift can be below -15°C and above +60°C, up to 15% of Sr.

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)

