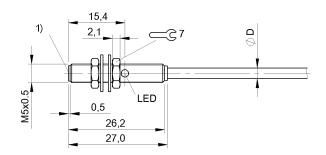
BES 516-3005-G-E4-C-PU-05

Order Code: BES00H4





1) Sensing surface









D -	_ : _	footi	

Basic features		
Approval/Conformity	cULus	
	CE UKCA	
	WEEE	
Basic standard	IEC 60947-5-2	
Display/Operation		
Function indicator	Ves	

Electrical connection

Power indicator

Cable diameter D	3.00 mm
Cable length L	5 m
Conductor cross-section	0.14 mm ²
Connection type	Cable, 5.00 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	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

MTTF (40 °C)

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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	

305 a

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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 5 x 27 mm Installation for flush mounting Mounting length 26.00 mm Size M5x0.5 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.

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.

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Wiring Diagrams (Schematic)

