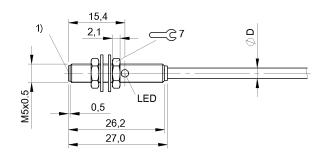
BES 516-3005-G-E4-C-PU-02

Order Code: BES00H3





1) Sensing surface









Pagio	fact.	

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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	3.00 mm
Cable length L	2 m
Conductor cross-section	0.14 mm ²
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	1 μF
Min. operating current Im	0 mA
No-load current Io 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

Environmental contaitions	
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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BES 516-3005-G-E4-C-PU-02 Order Code: BES00H3



±10 %

Interface

Switching output PNP normally open (NO)

Material

Housing materialStainless steelMaterial jacketPURMaterial sensing surfacePBT

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 %

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.

Wiring Diagrams

