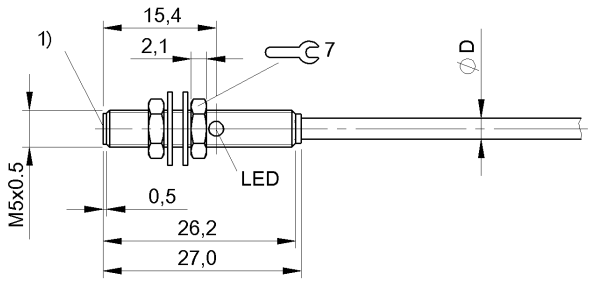
Inductive Sensors

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

Ordercode: BES00H4



1) Sensing surface

Display/Operation

Function indicator	yes
Power indicator	no

Electrical connection

Cable diameter D	3.00 mm
Cable length	5 m
Conductor cross-section	0.14 mm²
Connection type	Cable, 5.00 m, PUR
Number of conductors	3
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Contamination scale	3
Hysteresis H max. (% of Sr)	15.0 %
Load capacitance max. at Ue	1 µF
No-load current Io undamped max.	2 mA
Operating voltage Ub	10…30 VDC
Output resistance Ra	Open drain
Polarity reversal protected	yes
Rated insulation voltage Ui	75 V DC
Rated operating current Ie	100 mA
Rated operating voltage Ue DC	24 V
Rated short circuit current	100 A
Ready delay tv max.	21 ms
Repeat accuracy max. (% of Sr)	5.0 %
Residual current Ir max.	10 µA
Residual ripple max. (% of Ue)	10 %
Switching frequency	5000 Hz
Utilization category	DC-13
Voltage drop static max.	2 V

Environmental conditions

Ambient temperature	-25…70 °C
EN 60068-2-27, Shock	Half-sinus, 30 gn, 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating per IEC 60529	IP67

Functional safety

MTTF (40 °C)	305 a

General data

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

Material

Housing material	Stainless steel
Material jacket	PUR
Material sensing surface	PBT

Mechanical data

Dimension	Ø 5 x 27 mm
Installation	for flush mounting
Size	M5x0.5
Tightening torque	1 Nm

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Output/Interface

Switching output	PNP Normally open (NO)

Range/Distance

Assured operating distance Sa	1.21 mm
Effective operating distance Sr	1.5 mm
Rated operating distance Sn	1.5 mm
Switching distance marking	■■
Temperature drift max. (% of Sr)	10 %

Remarks

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

For further information on MTTF/B10d, please refer to the MTTF / B10d Certificate.

Specification of the MTTF value and the B10d value do not represent any binding quality and/or life expectancy guarantees.

Wiring Diagram

