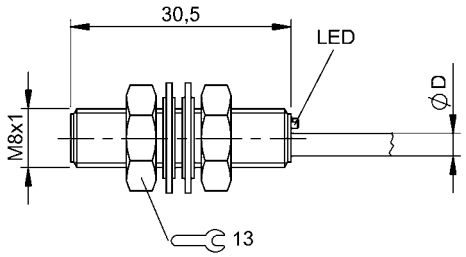
Inductive Sensors

BES 516-324-SA62-E4-C-PU-03

Ordercode: BES03F3



Display/Operation

Function indicator	yes
Power indicator	no

Electrical connection

Cable diameter D	3.10 mm
Cable length	3 m
Conductor cross-section	0.14 mm²
Connection type	Cable, 3.00 m, PUR
Number of conductors	3
Polarity reversal protected	yes
Short-circuit protection	yes

Electrical data

Hysteresis H max. (% of Sr)	15.0 %
Load capacitance max. at Ue	1 µF
MTTF (40 °C)	860 a
No-load current Io max., undamped	12 mA
Operating voltage Ub	10…30 VDC
Output resistance Ra	1.9 kOhm + D + LED
Pollution degree	3
Protected against miswiring	yes
Rated insulation voltage Ui	75 V DC
Rated operating current Ie DC	200 mA
Rated operating voltage Ue DC	24 V
Rated short circuit current	100 A
Ready delay tv max.	30 ms
Repeat accuracy max. (% of Sr)	5.0 %
Residual current Ir max.	80 µA
Switching frequency	1500 Hz
Utilization category	DC-13
Voltage drop static max.	2.5 V

Environmental conditions

Ambient temperature	-25…70 °C
Protection type IEC 60529	IP67

Functional safety

Diagnostic coverage	0 %
Functional safety	no
Mission Time	20 a

General data

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

Material

Housing material	Stainless steel
Material jacket	PUR
Material sensing surface	PBT

Mechanical data

Dimension	Ø 8 x 30 mm
Installation	for flush mounting
Size	M8x1
Tightening torque	5 Nm

Output/Interface

Switching output	PNP Normally open (NO)

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Range/Distance

Assured operating distance Sa	1.2 mm
Range	1.5 mm
Rated operating distance Sn	1.5 mm
Ripple max. (% of Ue)	15 %
Temperature drift max. (% of Sr)	10 %

Remarks

The sensor is functional again after the overload has been eliminated.
EMC: EMC protection circuit required, see 825345. IVW: 2.2

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

