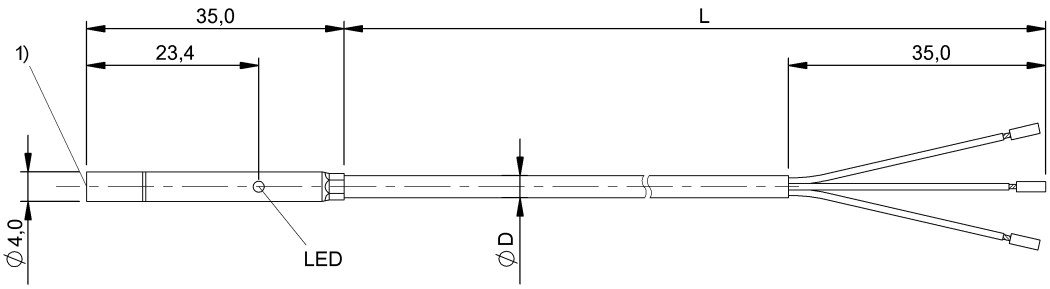
BES G04ED-NOC50F-EP05
BES0124



1) Sensing surface

IND. CONT. EQ
81U2
for use in the secondary of
a class 2 source of supply
Environmental - Type 1 Enclosure

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
Polarity reversal protected	yes
Short-circuit protection	yes

Electrical data

Hysteresis H max. (% of Sr)	20.0 %
Load capacitance max. at Ue	0.5 µF
MTTF (40 °C)	735 a
No-load current Io max., undamped	8 mA
Operating voltage Ub	10…30 VDC
Output resistance Ra	Open collector
Pollution degree	3
Protected against miswiring	yes
Rated insulation voltage Ui	75 V DC
Rated operating current Ie DC	100 mA
Rated operating voltage Ue DC	24 V
Rated short circuit current	100 A
Ready delay tv max.	20 ms
Repeat accuracy max. (% of Sr)	10.0 %
Residual current Ir max.	10 µA
Switching frequency	3000 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	cULus CE EAC
Basic standard	IEC 60947-5-2

Material

Housing material	Stainless steel
Material jacket	PUR
Material sensing surface	PET-C

Mechanical data

Dimension	Ø 4 x 35 mm
Installation	non-flush
Size	D4.0

Output/Interface

Switching output	NPN Normally closed (NC)

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Range/Distance

Assured operating distance Sa	4.05 mm
Range	5 mm
Rated operating distance Sn	5 mm
Ripple max. (% of Ue)	10 %
Switching distance marking	■■■
Temperature drift max. (% of Sr)	10 %

Remarks

EMC: For operating conditions with noise sources
external protection circuit is required. Document 825345.
The sensor is functional again after the overload has been eliminated.
Cannot be flush mounted: see installation instructions for inductive sensors with extended switching distance 843281. Avoid pressure and contact in the area of the clear zone cap.
When using an AC bridge, an electrolytic capacitor ≥10µF/40V parallel to Vs is recommended.

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