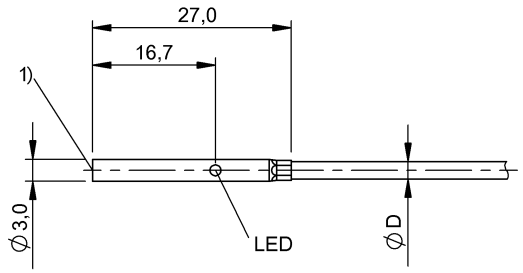
BES 516-3044-G-E4-C-PU-05
BES00M4



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	2.40 mm
Cable length	5 m
Conductor cross-section	0.10 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)	15.0 %
Load capacitance max. at Ue	0.15 µF
MTTF (40 °C)	305 a
No-load current Io max., undamped	2 mA
Operating voltage Ub	10…30 VDC
Output resistance Ra	Open drain
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.	25 ms
Repeat accuracy max. (% of Sr)	5.0 %
Residual current Ir max.	10 µA
Switching frequency	3500 Hz
Utilization category	DC -13
Voltage drop static max.	2 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	PBT

Mechanical data

Dimension	Ø 3 x 27 mm
Installation	for flush mounting
Size	D3.0

Output/Interface

Switching output	PNP Normally open (NO)

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Range/Distance

Assured operating distance Sa	0.8 mm
Range	1 mm
Rated operating distance Sn	1 mm
Ripple max. (% of Ue)	10 %
Switching distance marking	■■
Temperature drift max. (% of Sr)	10 %

Remarks

EMC: Surge resistance
External protection circuit is required. Document 825345, Section 2.
The sensor is functional again after the overload has been eliminated.
The temperature drift can be below -15°C and above +60°C, up to 15% of the sensing range.

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