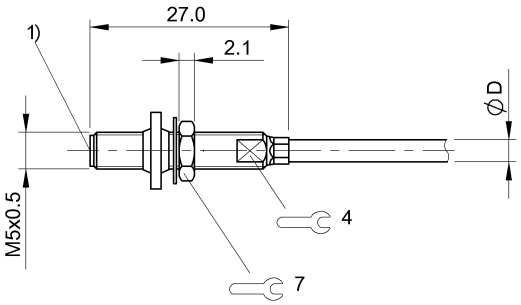
BES M05ED-PSD08B-BP02-R03
BES03L7



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	no
Power indicator	no

Electrical connection

Cable diameter D	3.00 mm
Cable length	2 m
Conductor cross-section	0.14 mm²
Connection type	Cable, 2.00 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	0.2 µF
MTTF (40 °C)	830 a
No-load current Io max., undamped	3 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.	25 ms
Repeat accuracy max. (% of Sr)	5.0 %
Residual current Ir max.	80 µA
Switching frequency	3000 Hz
Utilization category	DC -13
Voltage drop static max.	3 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

Gasket, material	PA
Housing material	Stainless steel
Material jacket	PUR
Material sensing surface	Ceramic

Mechanical data

Dimension	Ø 5 x 27 mm
Installation	for flush mounting
Pressure rating max.	100 bar
Pressure rating, note	oil pressure rated
Sealing ring, part number	178173
Sealing ring, size	10.4 × 3.5 mm

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Size	M5x0.5
Tightening torque	1 Nm ±10 %

Output/Interface

Switching output	PNP Normally open (NO)

Range/Distance

Assured operating distance Sa	0.65 mm
Range	0.8 mm
Rated operating distance Sn	0.8 mm
Ripple max. (% of Ue)	10 %
Temperature drift max. (% of Sr)	10 %

Remarks

The sensor is functional again after the overload has been eliminated.
Installation Instructions 868058

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

