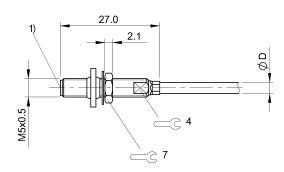
BES M05ED-PSD08B-BP02-R03

Order Code: BES03L7





1) Sensing surface









- Basic realures	Basic	features
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Approval/Conformity Basic standard	CE UKCA cULus WEEE IEC 60947-5-2
Display/Operation	
Function indicator	no
Power indicator	no
Electrical connection	
Cable diameter D	3.00 mm
Cable length L	2 m
Conductor cross-section	0.14 mm ²
Connection type	Cable, 2.00 m, PUR
Number of conductors	3
Polarity reversal protected	yes

yes

Electrical data

Load capacitance max. at Ue	0.2 μF
Min. operating current Im	1 mA
No-load current lo max., damped	10 mA
No-load current lo max., undamped	3 mA
Operating voltage Ub	1030 VDC
Output resistance Ra	Open collector
Rated insulation voltage Ui	75 V DC
Rated operating current le	100 mA
Rated operating voltage Ue DC	24 V
Rated short circuit current	100 A
Ready delay tv max.	25 ms
Residual current Ir max.	80 μΑ
Ripple max. (% of Ue)	10 %
Switching frequency	3000 Hz
Utilization category	DC -13
Voltage drop static max.	3 V

Ambient temperature	-2570 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 g _n , 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP67
Functional safety	

Protection against device mix-ups

Short-circuit protection

830 a

MTTF (40 °C)

BES M05ED-PSD08B-BP02-R03 Order Code: BES03L7



Interface

Switching output PNP normally open (NO)

Material

Housing material Stainless steel PUR Material jacket Material sensing surface Ceramic

Mechanical data

Dimension Ø 5 x 27 mm Installation for flush mounting Mounting length 24.00 mm Pressure rating max. 100 bar Pressure rating, note oil pressure rated 10.4 × 3.5 mm Sealing ring, size M5x0.5 Size Tightening torque 1 Nm ±10 %

Range/Distance

Assured operating distance Sa 0.65 mm Hysteresis H max. (% of Sr) 15.0 % Rated operating distance Sn 0.8 mm Real switching distance sr 0.8 mm Repeat accuracy max. (% of Sr) 5.0 % Temperature drift max. (% of Sr) 10 % Tolerance Sr -10 %/+40 %

Remarks

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

For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Subject to change without notice: 178019

Wiring Diagrams (Schematic)

