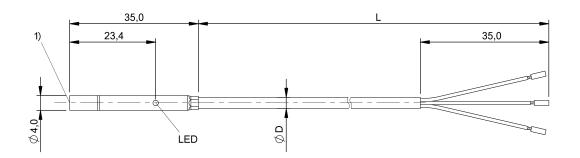
BES G04ED-PSC50F-EP02 Order Code: BES012H





1) Sensing surface



Display/Operation

Function indicator	yes
Power indicator	nο

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
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Load capacitance max. at Ue	0.5 μF
Min. operating current Im	0 mA
, •	
No-load current lo max., damped	10 mA
No-load current lo max., undamped	8 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.	20 ms
Residual current Ir max.	10 μΑ
Ripple max. (% of Ue)	10 %
Switching frequency	3000 Hz
Utilization category	DC -13
Voltage drop static max.	2.5 V

Environmental conditions

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

735 a

MTTF (40 °C)

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General data

oonorar aata		
Approval/Conformity	CE cULus EAC WEEE	
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	PNP normally open (NO)	
Range/Distance		
Assured operating distance Sa	4.05 mm	
Hysteresis H max. (% of Sr)	20.0 %	
Rated operating distance Sn	5 mm	
Real switching distance sr	5 mm	
Repeat accuracy max. (% of Sr)	10.0 %	
Switching distance marking	•••	
Temperature drift max. (% of Sr)	10 %	
Tolerance Sr	±10 %	

Remarks

Cannot be flush mounted: see installation instructions for inductive sensors with extended switching distance 939224. Avoid pressure and contact in the area of the clear zone cap.

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

EMC: EMC protection circuit required, see 825345. Burst: 1.2 IVW: 2.2

For further information about the 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.

Wiring Diagrams

