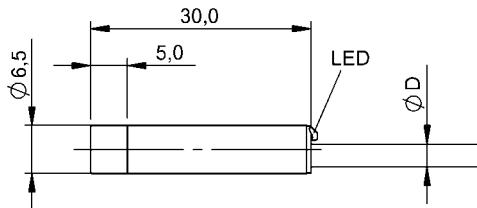


Inductive Sensors  
BES G06ED-PSC40F-BV02  
Order Code: BES000F

**BALLUFF**



#### Basic features

Approval/Conformity	CE UKCA cULus WEEE
Basic standard	IEC 60947-5-2
Trademark	Global

#### Display/Operation

Function indicator	yes
Power indicator	no

#### Electrical connection

Cable diameter D	3.00 mm
Cable length L	2 m
Conductor cross-section	0.14 mm <sup>2</sup>
Connection type	Cable, 2.00 m, PVC
Electrical version	3-wire
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	1.0 µF
No-load current I <sub>0</sub> max., damped	7 mA
No-load current I <sub>0</sub> max., undamped	2 mA
Operating voltage U <sub>b</sub>	10...30 VDC
Output resistance R <sub>a</sub>	33.0 kOhm
Protection class	II
Rated insulation voltage U <sub>i</sub>	250 V AC
Rated operating current I <sub>e</sub>	200 mA
Rated operating voltage U <sub>e</sub> DC	24 V
Rated short circuit current	100 A
Ready delay t <sub>v</sub> max.	25 ms
Residual current I <sub>r</sub> max.	10 µA
Ripple max. (% of U <sub>e</sub> )	10 %
Switching frequency	4000 Hz
Utilization category	DO -13
Voltage drop static max.	2.5 V

#### Environmental conditions

Ambient temperature	-25...70 °C, Temperature drift max. (% Sr) > 15% valid from 50...70 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 g <sub>n</sub> , 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP68

#### Functional safety

MTTF (40 °C)	595 a
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#### Interface

Switching output	PNP normally open (NO)
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Material	Range/Distance
Housing material	Stainless steel
Material jacket	PVC
Material sensing surface	PBT
<b>Mechanical data</b>	
Dimension	Ø 6.5 x 30 mm
Installation	non-flush
Mounting length	23.00 mm
Size	D6.5
	Assured operating distance Sa 3.2 mm
	Hysteresis H max. (% of Sr) 15.0 %
	Rated operating distance Sn 4 mm
	Real switching distance sr 4 mm
	Repeat accuracy max. (% of Sr) 5.0 %
	Switching distance marking ■■
	Temperature drift max. (% of Sr) 10 %
	Tolerance Sr ±10 %

## Remarks

Not for flush mounting: See installation instructions for inductive sensors with extended range 939229.

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

In rare cases, the function of the sensor may be impaired during contact with water.

In rare cases, the function of the sensor is lost and it is fully functional again after drying.

For more information about MTTF and R10d see MTTF / R10d 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

