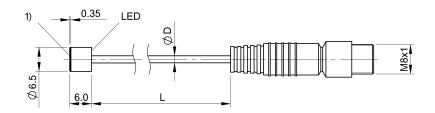
# BES G06E60-PSC15B-EP00,3-GS49 **Order Code: BES0254**

# **BALLUFF**



### 1) Sensing surface







#### **Basic features**

Approval/Conformity	CE
	cULus
	EAC
	WEEE
Basic standard	IEC 60947-5-2

### Display/Operation

Function indicator	yes
Power indicator	no

### **Electrical connection**

Cable diameter D	2.10 mm
Cable length L	0.3 m
Connection	M8x1-Male, 3-pin
Connection type	Cable with connector, 0.30 m,
	PUR
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

### **Electrical data**

Load capacitance max. at Ue	0.2 μF
Min. operating current Im	1 mA
No-load current lo max., damped	9 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	150 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	
Protection degree	IP67	
Functional safety		
MTTF (40 °C)	830 a	

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#### Material

Housing material Stainless steel Material jacket PUR Material sensing surface PBT

#### Mechanical data

Dimension Ø  $6.5 \times 6 \text{ mm}$ Installation for flush mounting Size D6.5

### Output/Interface

Switching output	PNP normally open (NO)
Range/Distance	
Assured operating distance Sa	1.2 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	1.5 mm
Real switching distance sr	1.5 mm
Repeat accuracy max. (% of Sr)	5.0 %
Temperature drift max. (% of Sr)	10 %
Tolerance Sr	±10 %

#### Remarks

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

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

For mounting and installation see Accessories section

Max. pull force on cable 10 N.

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.

### **Connector Drawings**



## **Wiring Diagrams**

