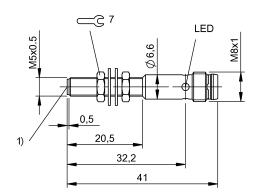
## BES 516-3022-G-E5-C-S49 **Order Code: BES00L5**

# BALLUFF



### 1) Sensing surface



Basic fe	eatures
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Approval/Conformity cULus CF EAC WEEE Basic standard IEC 60947-5-2

### Display/Operation

**Function indicator** yes Power indicator

### **Electrical connection**

Connection M8x1-Male, 3-pin Polarity reversal protected yes Protection against device mix-ups yes Short-circuit protection yes

### **Electrical data**

Load capacitance max. at Ue  $1 \, \mu F$ Min. operating current Im 0 mA No-load current lo max., damped 2 mA No-load current lo max., undamped 6 mA Operating voltage Ub 10...30 VDC Output resistance Ra Open drain 75 V DC Rated insulation voltage Ui Rated operating current le 100 mA Rated operating voltage Ue DC 24 V Rated short circuit current 100 A Ready delay tv max. 21 ms Residual current Ir max. 10 μΑ Ripple max. (% of Ue) 10 % Switching frequency 5000 Hz DC -13 **Utilization category** Voltage drop static max. 2 V

#### **Environmental conditions**

-25...70 °C Ambient temperature Contamination scale 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**

Subject to change without notice: 223508

MTTF (40 °C) 305 a

### BES 516-3022-G-E5-C-S49 **Order Code: BES00L5**



### Material

Housing material Stainless steel Material sensing surface PBT

### Mechanical data

Dimension Ø 5 x 41 mm Installation for flush mounting Size M5x0.5 **Tightening torque** 1 Nm

### Output/Interface

Switching output	PNP normally closed (NC)
Range/Distance	
Assured operating distance Sa	1.21 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 %
Switching distance marking	
Temperature drift max. (% of Sr)	10 %

#### Remarks

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

EMC: Surge resistance

External protection circuit is required. Document 825345, Section 2.

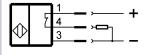
For more information about MTTF and B10d see MTTF / B10d Certificate

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**



**Tolerance Sr** ±10 %

2/2

eCl@ss 9.1: 27-27-01-01