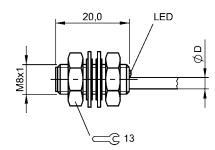
**Inductive Sensors** 

BES 516-324-SA44-C-03 Order Code: BES034R

# BALLUFF











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Approval/Conformity	cULus CE UKCA		
Base type deviation Basic standard	WEEE Housing length IEC 60947-5-2		

## Display/Operation

Function indicator Power indicator

#### Electrical connection

Cable diameter D	3.00 mm
Cable length L	3 m
Conductor cross-section	0.14 mm <sup>2</sup>
Connection type	Cable, 3.00 m, PVC
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 Io max., damped	10 mA
No-load current lo max., undamped	3 mA
Operating voltage Ub	1030 VDC
Output resistance Ra	33.0 kOhm + D
Rated insulation voltage Ui	75 V DC
Rated operating current le	200 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)	15 %
Switching frequency	4000 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 g <sub>n</sub> , 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP67
Functional safety	
MTTF (40 °C)	830 a
Interface	

Switching output PNP normally open (NO) **Inductive Sensors** 

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#### Material

Housing materialStainless steelMaterial jacketPVCMaterial sensing surfacePBT

#### Mechanical data

DimensionØ 8 x 20 mmInstallationfor flush mountingMounting length19.50 mmSizeM8x1Tightening torque8 Nm

### Range/Distance

#### Remarks

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

# Wiring Diagrams

