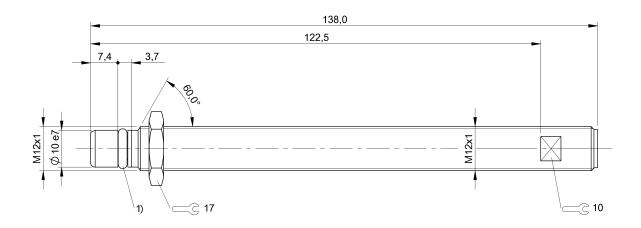
# BES 516-300-S164-S4-D **Order Code: BHS0023**





### 1) O-Ring with thrust ring









cULus
CE
UKCA
WEEE
Housing length
IEC 60947-5-2

### **Electrical connection**

**Function indicator** Power indicator

Connection	M12x1-Male, 4-pin, A-coded
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

no

### **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	1 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.	10 ms
Residual current Ir max.	10 μΑ
Ripple max. (% of Ue)	15 %
Switching frequency	1000 Hz
Utilization category	DC -13
Voltage drop static max.	1.5 V

### **Environmental conditions**

Subject to change without notice: 271158

Ambient temperature	-2580 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 $g_n$ , 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP68
Functional safety	
	700 -
MTTF (40 °C)	720 a

### **Inductive Sensors**

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# BALLUFF

### **Interface**

Switching output PNP normally open (NO)

### Material

**Housing material** 1.4104 stainless steel

Material sensing surface EP
Support ring material PTFE

### Mechanical data

DimensionØ 12 x 138 mmInstallationfor flush mounting

 Mounting part
 M12x1

 Pressure rating max.
 500 bar

 Pressure rating, note
 oil pressure rated

 Sealing ring, size
 5.3 × 2.4 mm

 Size
 M12x1

 Tightening torque
 15 Nm ±10 %

### 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. Installation Instructions 614804

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**

