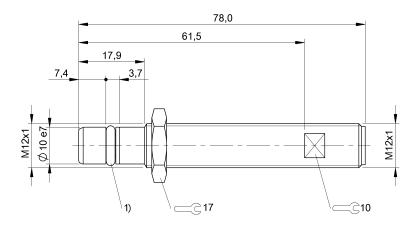
# Inductive Sensors BES 516-300-S135-S4-D Order Code: BHS001L





1) O-Ring with thrust ring

# 

### **Basic features**

Approval/Conformity	CE cULus EAC WEEE
Basic standard	IEC 60947-5-2
Display/Operation	
Function indicator	no
Power indicator	no
Electrical connection	

# ConnectionM12x1-Male, 4-pin, A-codedPolarity reversal protectedyesProtection against device mix-upsyesShort-circuit protectionyes

## **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 µA
Ripple max. (% of Ue)	15 %
Switching frequency	1000 Hz
Utilization category	DC -13
Voltage drop static max.	1.5 V

# **Environmental conditions**

Ambient temperature	-2580 °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)	720 a

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# BVLLAL

#### Material

Housing material	Stainless steel
Material sensing surface	EP
Support ring material	PTFE
Mechanical data	
Dimension	Ø 12 x 78 mm
Installation	for flush mounting
Mounting part	M12x1
Pressure rating max.	500 bar
Pressure rating, note	oil pressure rated
Sealing ring, size	5.85 × 2.4 mm
Size	M12x1
Tightening torque	15 Nm ±10 %

Outo	utlintorfo	~~
Outp	ut/Interfa	ce

#### 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

Installation Instructions 614804

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.

**Connector Drawings** 

# Wiring Diagrams

