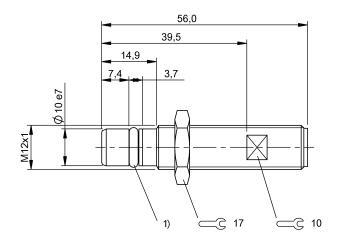
BES 516-300-S265-S4-D Order Code: BHS0033





1) O-Ring with thrust ring



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

Display/Operation

Function indicator	no
Power indicator	no

Electrical connection

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

Electrical data

Load capacitance max. at Ue	1 μF
Min. operating current Im	0 mA
No-load current lo max., damped	8 mA
No-load current lo max., undamped	3 mA
Operating voltage Ub	1030 VDC
Output resistance Ra	150.0 kOhm
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.	50 ms
Residual current Ir max.	10 μΑ
Ripple max. (% of Ue)	15 %
Switching frequency	2000 Hz
Utilization category	DC -13
Voltage drop static max.	2.1 V

Environmental conditions

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	

855 a

MTTF (40 °C)

Inductive Sensors

BES 516-300-S265-S4-D Order Code: BHS0033



Interface

Switching output PNP normally open (NO)

Material

Housing material Stainless steel

Material sensing surface EP
Support ring material PTFE

Mechanical data

DimensionØ 12 x 56 mmInstallationfor flush mounting

Mounting partM12x1Pressure rating max.500 barPressure rating, noteoil pressure ratedSealing ring, size 5.3×2.4 mmSizeM12x1

Remarks

Tightening torque

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

15 Nm ±10 %

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.

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 %

Connector Drawings



Wiring Diagrams

