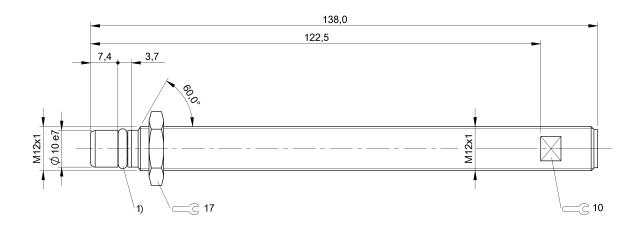
BES 516-300-S164-S4-D **Order Code: BHS0023**





1) O-Ring with thrust ring









Rasic features

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

Function indicator 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	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

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	

720 a

MTTF (40 °C)

Inductive Sensors

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



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 partM12x1Pressure rating max.500 barPressure rating, noteoil pressure ratedSealing ring, size5.3 × 2.4 mmSizeM12x1

Range/Distance

Assured operating distance Sa

Hysteresis H max. (% of Sr)

Rated operating distance Sn

Real switching distance sr

Repeat accuracy max. (% of Sr)

Temperature drift max. (% of Sr)

Tolerance Sr

1.2 mm

1.5 mm

1.5 mm

5.0 %

10 %

Remarks

Tightening torque

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

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.

Connector Drawings



Wiring Diagrams

