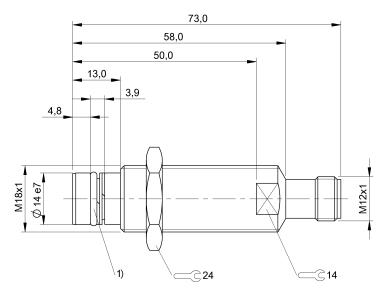
Inductive Sensors BES 516-300-S144-S4-D Order Code: BHS001N





1) O-Ring with thrust ring



Basic features

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

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	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

-2580 °C
3
Half-sinus, 30 g _n , 11 ms
55 Hz, amplitude 1 mm, 3x30 min
IP68

Functional safety

MTTF (40 °C)

720 a

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BALLUFF

Ø 18 x 73 mm for flush mounting

M18x1 350 bar oil pressure rated 11 × 1.8 mm M18x1 40 Nm ±10 %

1.2 mm 15.0 %

1.5 mm 1.5 mm

5.0 %

10 %

±10 %

Interface

Interface		Mechanical data
Switching output Material	PNP normally open (NO)	Dimension Installation Mounting part
Gasket, material Housing material Material sensing surface Support ring material	NBR 60-80 Stainless steel EP PTFE	Pressure rating max. Pressure rating, note Sealing ring, size Size Tightening torque Range/Distance
		Assured operating distance Sa Hysteresis H max. (% of Sr) Rated operating distance Sn Real switching distance sr Repeat accuracy max. (% of Sr)

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.

Temperature drift max. (% of Sr)

Tolerance Sr

Connector Drawings



Wiring Diagrams

