

1) O-Ring with thrust ring



Basic features







Approval/Conformity	CE	
	UKCA	
	cULus	
	WEEE	
Basic standard	IEC 60947-5-2	
Diaplay/Operation		

Display/Operation

Function indicator nο 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 10...30 VDC Output resistance Ra 33.0 kOhm + D Rated insulation voltage Ui 75 V DC 200 mA Rated operating current le Rated operating voltage Ue DC 24 V Rated short circuit current 100 A 10 ms Ready delay tv max. Residual current Ir max. 10 μΑ 15% Ripple max. (% of Ue) 1000 Hz Switching frequency Utilization category DC -13 Voltage drop static max. 1.5 V

Environmental conditions

-25...80 °C Ambient temperature Contamination scale 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

MTTF (40 °C) 720 a

Inductive Sensors

BES 516-300-S135-S4-D Order Code: BHS001L

BALLUFF

Interface

Switching output PNP normally open (NO)

Material

Housing material Stainless steel

Material sensing surface EP

Material sensing surfaceEPSupport ring materialPTFE

Mechanical data

Dimension Ø 12 x 78 mm Installation for flush mounting Mounting length 43.60 mm Mounting part M12x1 Pressure rating max. 500 bar oil pressure rated Pressure rating, note 5.85 × 2.4 mm Sealing ring, size M12x1 Tightening torque 15 Nm ±10 %

Range/Distance

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

