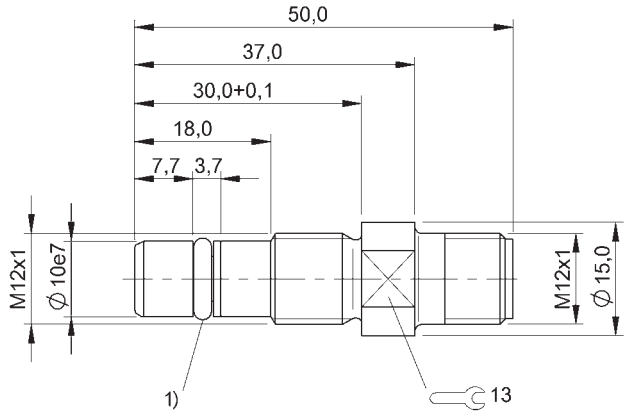
Inductive sensor

BES 516-300-S262-S4-D
BHS0032



1) O-ring with support ring

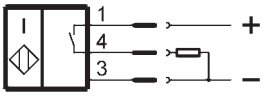
- **PNP**
- **Normally open (NO)**
- **1.50 mm**
- **Flush (shielded)**
- **Connector, M12x1-S04**

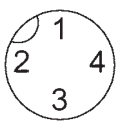
General attributes

Approvals / Conformity	CE cULus EAC
Basic standard	IEC 60947-5-2
Enclosure Type per IEC 60529	IP68 according to BWN PR 20
Function indicator	No
Part number sealing ring	631753
Part number thrust ring	705918
Polarity reversal protected	Yes
Power indicator	No
Short circuit protected	Yes
MTTF (40°C)	855 a

Electrical attributes

Connection type	Connector
Eff. operating current Ie	200 mA
Eff. operating voltage Ue DC	24.0 V
Electrical version	DC, direct current
Load capacitance max. (at Ue)	1.000 µF
Max. no-load cur. Io undamped	3.0 mA
Minimum operating current Im	0 mA
No-load current Io damped max.	8.0 mA
Operating voltage UB max. DC [V]	30.0 V
Operating voltage UB min. DC [V]	10.0 V
Rated insulation voltage Ui	75 VDC
Rated short circuit current	100 A
Ripple max. (% of Ue)	15 %
Switching freq. f max. (at Ue)	2000 Hz
Switching function	Normally open (NO)
Switching output	PNP
Voltage drop static max.	2.0 V





Mechanical attributes

Ambient temperature Ta max.	90 °C
Ambient temperature Ta min.	-25 °C
Assured operating distance Sa	1.20 mm
Connector type	M12x1-S04
Depth	50.0 mm
Diameter d1	M12x1
Eff. operating distance Sr	1.50 mm
Housing material	1.4104
Mech. installation condition	Flush (shielded)
Mounting hi-pressure switches	M12x1
Mounting length	12.0 mm
Pressure resistance	oilpressure-rated to 500 bar
Rated operating distance Sn [mm]	1.50 mm
Sensing face material	EP
Size of sealing ring	5.3 x 2.4
Thrust ring material	PTFE
Tightening torque	20 Nm ±10 %

Remarks

The sensor is functional again after the overload has been eliminated.
Pressure cycle resistance: typ.1 mil. cycles 350 bar 90ºC on Balluff test stand per BWN PR 12.
Overvoltage protection with bi-directional Zener diode between plus (+) and minus (-).
Installation instructions 614804.

For further information on MTTF/B10d, please refer to the MTTF / B10d Certificate.

Specification of the MTTF value and the B10d value do not represent any binding quality and/or life expectancy guarantees.

