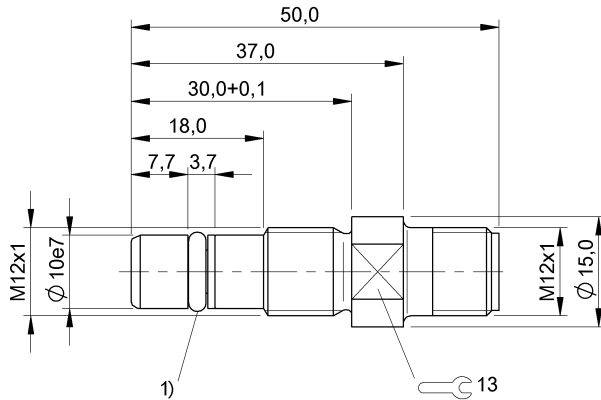


BES 516-300-S262-S4-D BHS0032



1) O-ring with thrust ring



IND. CONT. EQ
81U2
for use in the secondary of
a class 2 source of supply
Environmental - Type 1 Enclosure



Display/Operation

Function indicator	no
Power indicator	no

Electrical connection

Connection	M12x1-Connector, 4-pole, A-coded
Polarity reversal protected	yes
Short-circuit protection	yes

Electrical data

Hysteresis H max. (% of Sr)	15.0 %
Load capacitance max. at Ue	1 µF
MTTF (40 °C)	855 a
No-load current I _o max., undamped	3 mA
Operating voltage U _b	10...30 VDC
Output resistance R _a	150.0 kOhm
Pollution degree	3
Protected against miswiring	yes
Rated insulation voltage U _i	75 V DC
Rated operating current I _e DC	200 mA
Rated operating voltage U _e DC	24 V
Rated short circuit current	100 A
Ready delay t _v max.	50 ms
Repeat accuracy max. (% of Sr)	5.0 %
Residual current I _r max.	10 µA
Switching frequency	2000 Hz
Utilization category	DC -13
Voltage drop static max.	2 V

Environmental conditions

Ambient temperature	-25...90 °C
Protection type IEC 60529	IP68

Functional safety

Diagnostic coverage	0 %
Functional safety	no
Mission Time	20 a

General data

Approval/Conformity	CE cULus EAC
Basic standard	IEC 60947-5-2
Thrust ring, part number	705918

Material

Gasket, material	NBR 70
Housing material	Stainless steel (1.4104)
Material sensing surface	EP
Support ring material	PTFE

Mechanical data

Dimension	Ø 12 x 50 mm
Fastening detail	M12x1
Installation	for flush mounting
Pressure rating max.	500 bar
Pressure rating, note	oil pressure rated
Sealing ring, part number	631753
Sealing ring, size	5.3 × 2.4 mm

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Size	M12x1
Tightening torque	20 Nm \pm 10 %

Temperature drift max. (% of Sr) 10 %

Output/Interface

Switching output	PNP Normally open (NO)
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Range/Distance

Assured operating distance Sa	1.2 mm
Range	1.5 mm
Rated operating distance Sn	1.5 mm
Ripple max. (% of Ue)	15 %

Remarks

The sensor is functional again after the overload has been eliminated.
 Pressure cycle rating: typ. 1 mil. changes 350 bar 90°C on Balluff test stand per BWN Pr. 12.
 Overvoltage protection using 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.

Connector view



Wiring Diagram

