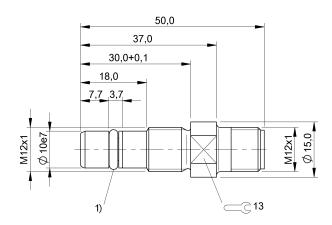
# BES 516-300-S324-S4-D **Order Code: BHS004T**





# 1) O-Ring with thrust ring







## **Basic features**

Short-circuit protection

Approval/Conformity	CE UKCA WEEE
Base type deviation	Pressure rated to 350 bar
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	ves

yes

## **Electrical data**

Load capacitance max. at Ue	1 μF
Min. operating current Im	0 mA
No-load current lo max., damped	8 mA
No-load current lo max., undamped	3 mA
Operating voltage Ub	1030 VDC
Output resistance Ra	150.0 kOhm
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.	50 ms
Residual current Ir max.	10 μΑ
Ripple max. (% of Ue)	15 %
Switching frequency	1000 Hz
Utilization category	DC -13
Voltage drop static max.	2.1 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	
MTTF (40 °C)	855 a

### **Inductive Sensors**

# BES 516-300-S324-S4-D Order Code: BHS004T



#### **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 50 mmInstallationfor flush mounting

Mounting partM12x1Pressure rating max.350 bar

Pressure rating, noteoil pressure ratedSealing ring, size $5.85 \times 2.4 \text{ mm}$ SizeM12x1Tightening torque20 Nm ±10 %

## Range/Distance

Assured operating distance Sa 1.2 mm

Hysteresis H max. (% of Sr) 15.0 %

Rated operating distance Sn 1.5 mm

Real switching distance sr 1.5 mm

Repeat accuracy max. (% of Sr) 5.0 %

Temperature drift max. (% of Sr) 10 %

Tolerance Sr ±10 %

#### Remarks

The sensor is functional again after the overload has been eliminated.

Overvoltage protection using bi-directional Zener diode between Plus (+) and Minus (-).

Pressure cycle rating: typ.1 mil. changes 350 bar 90°C on Balluff test stand per BWN Pr. 12.

614804

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**

