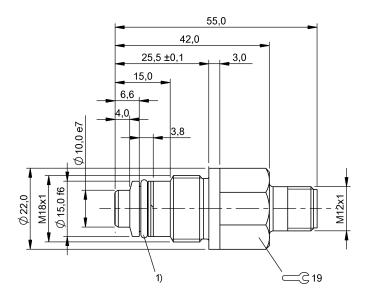
## BES 516-300-S308-S4-D Order Code: BHS004J

# **BALLUFF**



1) O-Ring with thrust ring







#### Basic features

Approval/Conformity  Basic standard	CE UKCA WEEE 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	1 μF
Min. operating current Im	0 mA
No-load current lo max., damped	8 mA
No-load current Io 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	2000 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 <sub>n</sub> , 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP68
Functional safety	

855 a

MTTF (40 °C)

## BES 516-300-S308-S4-D Order Code: BHS004J

## BALLUFF

#### Interface

Switching output PNP normally open (NO)

#### Material

Gasket, material NBR 60-80 Housing material 1.4104 stainless steel

Material sensing surface FΡ Support ring material PTFE

#### Mechanical data

Dimension Ø 18 x 55 mm Installation for flush mounting Mounting length 10.50 mm Mounting part M18x1 Pressure rating max. 500 bar Pressure rating, note oil pressure rated Sealing ring, size 12.42 × 1.78 mm

M18x1 Tightening torque 40 Nm ±10 %

#### Range/Distance

Assured operating distance Sa 1.2 mm 15.0 % Hysteresis H max. (% of Sr) Rated operating distance Sn 1.5 mm Real switching distance sr 1.5 mm 5.0 % Repeat accuracy max. (% of Sr) Temperature drift max. (% of Sr) 10 % Tolerance Sr ±10 %

#### Remarks

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

Subject to change without notice: 271159

### **Connector Drawings**



### Wiring Diagrams (Schematic)

