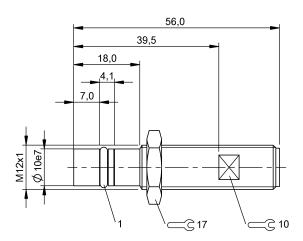
# BHS B249V-PSD15-S04 Order Code: BHS005Y

# **BALLUFF**



## 1) O-Ring with thrust ring









Basic	features
Duoio	1 Catal Co

Approval/Conformity	CE UKCA cULus
	WEEE
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	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	8 mA
No-load current lo max., undamped	8 mA
Operating voltage Ub	1030 VDC
Output resistance Ra	33.0 kOhm + 2D
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.	20 ms
Residual current Ir max.	10 μΑ
Ripple max. (% of Ue)	15 %
Switching frequency	400 Hz
Utilization category	DC -13
Voltage drop static max.	2.5 V

## **Environmental conditions**

MTTF (40 °C)	500 a
Functional safety	
IP rating	IP68
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
EN 60068-2-27, Shock	Half-sinus, 30 g <sub>n</sub> , 11 ms
Contamination scale	3
Ambient temperature	-25120 °C

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# BALLUFF

#### Interface

Switching output PNP normally open (NO)

#### Material

Housing materialStainless steelMaterial sensing surfaceCeramicSupport ring materialPTFE

#### Mechanical data

Dimension Ø 12 x 56 mm Installation for flush mounting Mounting length 21.50 mm Mounting part M12x1 Pressure rating max. 500 bar oil pressure rated Pressure rating, note 6.75 × 1.78 mm Sealing ring, size M12x1 Tightening torque 15 Nm ±10 %

## Range/Distance

Assured operating distance Sa 1.21 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) 15 %

Tolerance Sr ±10 %

#### Remarks

The sensor is functional again after the overload has been eliminated. Installation Instructions 614804

le [mA] = 200 - 2.2x(Ta-75) at Ta [°C] +75...+120

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 (Schematic)

