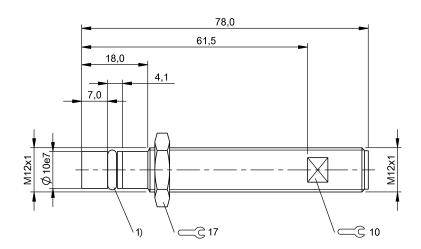
BALLUFF



1) O-Ring with thrust ring









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Approval/Conformity

CE UKCA cULus WEEE

0.5 µF

8 mA

8 mA

20 ms

10 μΑ

400 Hz

2.5 V

10...30 VDC

33.0 kOhm + 2D

M12x1-Male, 4-pin, A-coded

Electrical connection

Connection Protection against device mix-ups

yes Short-circuit protection yes

Electrical data

Load capacitance max. at Ue No-load current lo max., damped No-load current lo max., undamped Operating voltage Ub Output resistance Ra

Ready delay tv max. Residual current Ir max. Switching frequency Voltage drop static max.

Environmental conditions

-25...80 °C Ambient temperature 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)

Interface

Switching output

Material

Housing material Material sensing surface Support ring material

Ceramic PTFE

Stainless steel

Ø 12 x 78 mm

43.50 mm

M12x1

500 bar

M12x1

for flush mounting

oil pressure rated

6.75 × 1.78 mm

15 Nm ±10 %

500 a

PNP normally open (NO)

Mechanical data

Dimension Installation Mounting length Mounting part Pressure rating max. Pressure rating, note

Sealing ring, size

Tightening torque

Range/Distance

Assured operating distance Sa Rated operating distance Sn Real switching distance sr Temperature drift max. (% of Sr) 1.21 mm

1.5 mm 1.5 mm

15%

Inductive Sensors

BHS B135V-PSD15-S04 Order Code: BHS005R



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

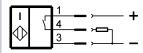
For more information about MTTF and B10d see MTTF / B10d Certificate

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)



Subject to change without notice: 271031