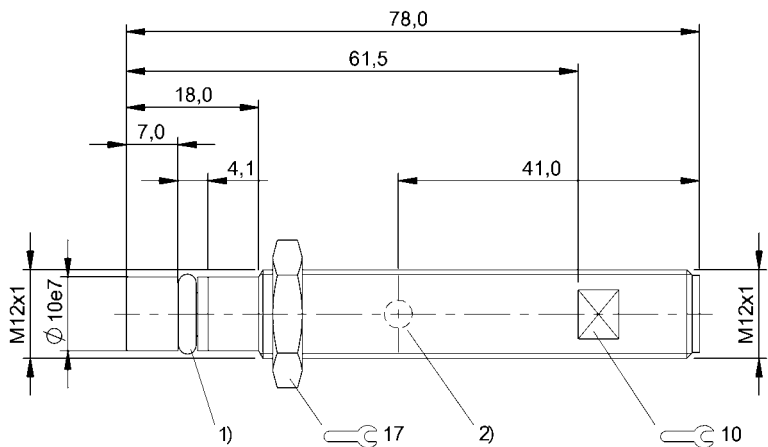




1) O-Ring with thrust ring, 2) Temperature sensor location



Basic features

Additional features	Temperature output, voltage range of temperature sensor 1... 5.5 V DC
Approval/Conformity	cULus CE UKCA 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	no
Short-circuit protection	yes

Electrical data

Load capacitance max. at Ue	0.5 μ F
Min. operating current I _m	0 mA
No-load current I _o max., damped	8 mA
No-load current I _o max., undamped	8 mA
Operating voltage U _b	10...30 VDC
Output resistance R _a	33.0 kOhm + 2 D
Rated insulation voltage U _i	75 V DC
Rated operating current I _e	200 mA
Rated operating voltage U _e DC	24 V
Rated short circuit current	100 A
Ready delay t _v max.	20 ms
Residual current I _r max.	10 μ A
Ripple max. (% of U _e)	15 %
Switching frequency	400 Hz
Utilization category	DC -13
Voltage drop static max.	2.5 V

Environmental conditions

Ambient temperature	-25...120 °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

Interface

Switching output	PNP normally open (NO)
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Inductive Sensors
BHS B135V-PSD15-S04-T01
Order Code: BHS005T



Material

Housing material	1.4104 stainless steel
Material sensing surface	Ceramic
Support ring material	PTFE

Mechanical data

Dimension	Ø 12 x 78 mm
Installation	for flush mounting
Mounting length	43.50 mm
Mounting part	M12x1
Pressure rating max.	500 bar
Pressure rating, note	oil pressure rated
Sealing ring, size	6.75 x 1.78 mm
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)	10 %
Tolerance Sr	±10 %

Remarks

Installation Instructions 614804
 $I_e [mA] = 200 - 2.2 \times (T_a - 75)$ at $T_a [^{\circ}C] + 75 \dots + 120$
 $U(T) [V] = 1 + 0.03 \times (T + 25)$
 $RL(T)_{min} = 5k\Omega$.
The sensor is functional again after the overload has been eliminated.

Connector Drawings



Wiring Diagrams

