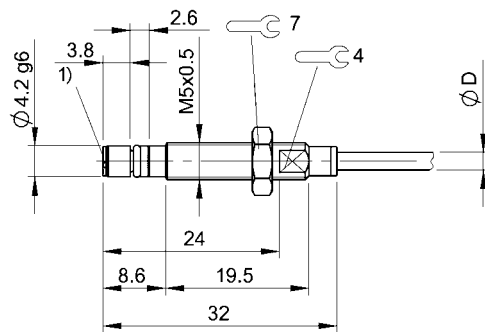




1) Sensing surface



Basic features

Approval/Conformity	CE
	UKCA
	cULus
	WEEE
Basic standard	IEC 60947-5-2

Display/Operation

Function indicator	no
Power indicator	no

Electrical connection

Cable diameter D	2.50 mm
Cable length L	2 m
Conductor cross-section	0.10 mm ²
Connection type	Cable, 2.00 m, PUR
Number of conductors	3
Polarity reversal protected	yes
Protection against device mix-ups	no
Short-circuit protection	yes

Electrical data

Load capacitance max. at U _e	0.4 µF
Min. operating current I _m	10 mA
No-load current I _o max., damped	10 mA
No-load current I _o max., undamped	7 mA
Operating voltage U _b	10...30 VDC
Output resistance R _a	Open collector
Rated insulation voltage U _i	75 V DC
Rated operating current I _e	100 mA
Rated operating voltage U _e DC	24 V
Rated short circuit current	100 A
Ready delay t _v max.	25 ms
Residual current I _r max.	100 µA
Ripple max. (% of U _e)	10 %
Switching frequency	3000 Hz
Utilization category	DC -13
Voltage drop static max.	2.5 V

Environmental conditions

Ambient temperature	-25...80 °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)
------------------	------------------------

Material

Gasket, material	NBR 70
Housing material	Stainless steel
Material jacket	PUR
Material sensing surface	Ceramic
Support ring material	PTFE

Mechanical data

Dimension	Ø 5 x 32 mm
Installation	for flush mounting
Mounting length	19.50 mm
Mounting part	M5x0.5
Pressure rating max.	500 bar
Pressure rating, note	oil pressure rated
Sealing ring, size	2.35 x 1 mm
Size	M5x0.5
Tightening torque	1 Nm ±10 %

Range/Distance

Assured operating distance Sa	0.8 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	1 mm
Real switching distance sr	1 mm
Repeat accuracy max. (% of Sr)	10.0 %
Temperature drift max. (% of Sr)	10 %
Tolerance Sr	±10 %

Remarks

Installation Instructions 861458
The sensor is functional again after the overload has been eliminated.

Wiring Diagrams

