



1) Pressure resistant area

**Basic features**

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

Display/Operation

Function indicator	yes
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 I _m	0 mA
No-load current I _o max., damped	16 mA
No-load current I _o max., undamped	9 mA
Operating voltage U _b	10...30 VDC
Output resistance R _a	47.0 kOhm
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.	60 ms
Residual current I _r max.	100 µA
Ripple max. (% of U _e)	15 %
Switching frequency	400 Hz
Utilization category	DC-13
Voltage drop static max.	2 V

Environmental conditions

Ambient temperature	-25...70 °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	IP67

Functional safety

MTTF (40 °C)	335 a
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Interface

Switching output NPN normally open (NO)

Material

Housing material Stainless steel

Material sensing surface Stainless steel

Mechanical data

Dimension Ø 12 x 60 mm

Installation quasi-flush

Mounting length 41.00 mm

Pressure rating max. 80 bar

Pressure rating, note Pressure-resistant

Size M12x1

Tightening torque 10 Nm ±10 %

Range/Distance

Assured operating distance Sa 4.9 mm

Hysteresis H max. (% of Sr) 15.0 %

Rated operating distance Sn 6 mm

Real switching distance sr 6 mm

Repeat accuracy max. (% of Sr) 5.0 %

Switching distance marking ■■■

Temperature drift max. (% of Sr) 10 %

Tolerance Sr ±10 %

Remarks

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

When installing in metals the switching distance may be reduced by up to 50%. Installation Instructions 841020.

Installation permitted only in clamp without positive stop.

LED flashes between 100% and approx. 70% of Sr

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

