



Basic features

Additional features	Factor 1 Weld immune Housing resistant to weld spatter
Approval/Conformity	CE UKCA cULus WEEE
Basic standard	IEC 60947-5-2
Trademark	Factor 1

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 μ F
Magnetic field strength, interference field	100 kA/m
Min. operating current I _m	0 mA
No-load current I _o max., damped	33 mA
No-load current I _o max., undamped	25 mA
Operating voltage U _b	10...30 VDC
Output resistance R _a	33.0 kOhm + D
Rated insulation voltage U _i	75 V AC
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.	30 ms
Ripple max. (% of U _e)	15 %
Switching frequency	80 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
Magnetic field immune	magnetic field immune (AC/DC)

Functional safety

MTTF (40 °C)	260 a
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Interface

Switching output	PNP normally open (NO)
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Material

Housing material	Stainless steel, weld spatter resistant, coated
Material sensing surface	Stainless steel, coated

Mechanical data

Dimension	Ø 12 x 65 mm
Installation	for flush mounting
Mounting length	50.00 mm
Size	M12x1
Tightening torque	15 Nm

Remarks

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

Installation permitted only in clamp without positive stop.

Installation notice: flush in Al or non-ferrous metal $Sr = 0.7 \times Sn$

Use nuts and lockwashers provided.

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

