

Product characteristics

Inductive sensor
Metal thread M30 x 1.5
Quick disconnect
Operation as 3-wire or 2-wire possible
Increased sensing range
Optical setting aid (2 LED)
gold-plated contacts
Sensing range 14 mm; [f] flush mountable

Electrical data

Electrical design	3-wire DC PNP; 2-wire DC PNP/NPN
Operating voltage [V]	10...36 DC
Current consumption [mA]	10 (24 V)
Protection class	II
Reverse polarity protection	yes

Outputs

Output function	normally open
Voltage drop [V]	< 2.5
Minimum load current [mA]	2; only in 2-wire operation
Leakage current [mA]	< 0.5; only in 2-wire operation
Current rating [mA]	100
Short-circuit protection	yes (non-latching)
Overload protection	yes
Switching frequency [Hz]	100

Monitoring range

Sensing range [mm]	14
Real sensing range (Sr) [mm]	14 ± 10 %
Operating distance [mm]	0...11.34

Accuracy / deviations

Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / aluminium approx. 0.4 / copper approx. 0.3
Hysteresis [% of Sr]	3...15
Switch-point drift [% of Sr]	-10...10

Environment

Ambient temperature [°C]	0...100
Protection	IP 68 / IP 69K

Tests / approvals

EMC	EN 61000-4-2 ESD: 4 kV CD / 8 kV AD EN 61000-4-3 HF radiated: 10 V/m EN 61000-4-4 Burst: 2 kV EN 61000-4-6 HF conducted: 10 V EN 55011: class B
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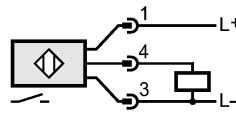
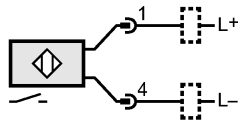
MTTF [Years]	1473
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IIT204 - Inductive sensor - eclass: 27270101 / 27-27-01-01

Mechanical data

Mounting		flush mountable
Housing materials		stainless steel (316L); active face: PEEK (polyether ether ketone)
Weight	[kg]	0.13
Displays / operating elements		
Output status indication	LED	yellow (4 x 90°)
Setting aid	LED	red
Electrical connection		
Connection		M12 connector; gold-plated contacts

Wiring



Accessories

Accessories (included)		2 lock nuts
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Remarks

Remarks		suitable for PLC type 1 according to IEC 61131-2
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Pack quantity	[piece]	1
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