

Product characteristics

Inductive sensor
Metal thread M30 x 1.5
Quick disconnect
Increased sensing range
gold-plated contacts
Sensing range 22 mm; [nf] non-flush mountable

Electrical data

Electrical design	DC PNP
Operating voltage [V]	10...30 DC
Current consumption [mA]	< 10
Protection class	II
Reverse polarity protection	yes

Outputs

Output function	normally closed
Voltage drop [V]	< 2.5
Current rating [mA]	100
Short-circuit protection	yes
Overload protection	yes
Switching frequency [Hz]	100

Monitoring range

Sensing range [mm]	22
Real sensing range (Sr) [mm]	22 ± 10 %
Operating distance [mm]	0...17.82

Accuracy / deviations

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

Environment

Ambient temperature [°C]	-25...70
Protection	IP 67

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]	1570
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UL approval number	A001
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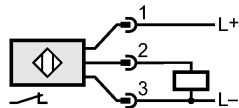
Mechanical data

Mounting	non-flush mountable
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# IIS209 - Inductive sensor - eclass: 27270101 / 27-27-01-01

Housing materials	brass white bronze coated; active face: PBT orange; LED window: PEI; lock nuts: brass white bronze coated	
Weight	[kg]	0.1
Displays / operating elements		
Output status indication	LED	4 x yellow
Electrical connection		
Connection	M12 connector; gold-plated contacts	

## Wiring



Accessories		
Accessories (included)	2 lock nuts	
Remarks		
Pack quantity	[piece]	1