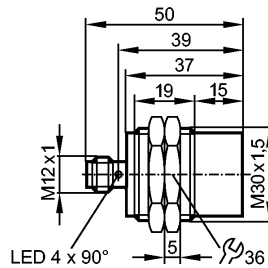


IIS209

Inductive sensors



Made in Germany

Product characteristics

Inductive sensor

Metal thread M30 x 1.5

Connector

Increased sensing range

gold-plated contacts

Sensing range 22 mm [nf]

non-flush mountable

Electrical data

Electrical design	DC PNP
Operating voltage [V]	10...36 DC
Current consumption [mA]	< 10 (24 V)
Protection class	II
Reverse polarity protection	yes

Outputs

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

Range

Sensing range [mm]	22
Real sensing range (Sr) [mm]	22 ± 10 %
Operating distance [mm]	0...17.6

Accuracy / deviations

Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / Al approx. 0.4 / Cu approx. 0.3
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 (80...1000 MHz) EN 61000-4-4 Burst: 2 kV
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IIS209
Inductive sensors

		EN 61000-4-6 HF conducted: 10 V (0.15...80 MHz)
		EN 55011: class B
MTTF	[Years]	1955

Mechanical data

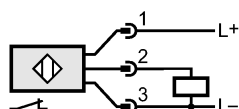
Mounting		non-flush mountable
Housing materials		brass white bronze coated; active face: PBT
Weight	[kg]	0.111

Displays / operating elements

Output status indication	LED	yellow (4 x 90°)
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Electrical connection

Connection		M12 connector; gold-plated contacts
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Wiring

Accessories

Accessories (included)		2 lock nuts
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