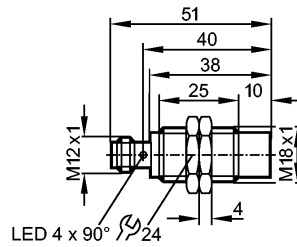


IGS205

Inductive sensors



Made in Germany



Product characteristics

Inductive sensor
Metal thread M18 x 1
Connector
Increased sensing range
gold-plated contacts
Sensing range 12 mm [nf]
non-flush mountable

Electrical data

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

Outputs

Output function	normally open
Voltage drop [V]	< 2.5
Current rating [mA]	100
Short-circuit protection	pulsed
Overload protection	yes
Switching frequency [Hz]	300

Range

Sensing range [mm]	12
Real sensing range (Sr) [mm]	12 ± 10 %
Operating distance [mm]	0...9.7

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]	1...20
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...2000 MHz)
	EN 61000-4-4 Burst: 2 kV

IGS205

Inductive sensors

	EN 61000-4-6 HF conducted:	10 V (0.15...80 MHz)
	EN 55011:	class B
MTTF	[Years]	2072

Mechanical data

Mounting	non-flush mountable
Housing materials	brass white bronze coated; active face: PBT (Pocan)
Weight	[kg] 0.043

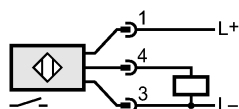
Displays / operating elements

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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