

Product characteristics

Inductive sensor

Metal thread M18 x 1

Quick disconnect

Increased sensing range

gold-plated contacts

Sensing range 8 mm; [f] flush mountable

Electrical data

Electrical design

Operating voltage [V]

Protection class

Reverse polarity protection

Outputs

Output function

Voltage drop [V]

Minimum load current [mA]

Leakage current [mA]

Current rating

- Current rating (continuous) [mA]

- Current rating (peak) [mA]

Short-circuit protection

Overload protection

Switching frequency [Hz]

Monitoring range

Sensing range [mm]

Real sensing range (Sr) [mm]

Operating distance [mm]

Accuracy / deviations

Correction factors

Hysteresis [% of Sr]

Switch-point drift [% of Sr]

Environment

Ambient temperature [°C]

Protection

Tests / approvals

EMC

MTTF [Years]

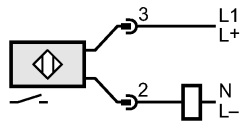
Mechanical data

	AC/DC
Operating voltage [V]	20...140 AC/DC (47...63 Hz AC)
Protection class	II
Reverse polarity protection	yes
Output function	normally open
Voltage drop [V]	< 5.5
Minimum load current [mA]	5
Leakage current [mA]	< 1
- Current rating (continuous) [mA]	200
- Current rating (peak) [mA]	\hat{i} : 1.2 A (20 ms / 0.5 Hz)
Short-circuit protection	yes (non-latching)
Overload protection	yes
Switching frequency [Hz]	25
Sensing range [mm]	8
Real sensing range (Sr) [mm]	8 ± 10 %
Operating distance [mm]	0...6.5
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
Ambient temperature [°C]	-25...70
Protection	IP 67
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
MTTF [Years]	394

IGS001 - Inductive sensor - eclass: 27270101 / 27-27-01-01

Mounting		flush mountable
Housing materials		brass white bronze coated; PBT (Pocan)
Weight	[kg]	0.063
Displays / operating elements		
Output status indication	LED	yellow (4 x 90°)
Electrical connection		
Connection		1/2" connector; gold-plated contacts

Wiring



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