

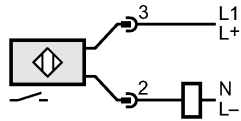
Product characteristics

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	
Operating voltage [V]	AC/DC 20...140 AC/DC (47...63 Hz AC)
Protection class	II
Reverse polarity protection	yes
Outputs	
Output function	normally open
Voltage drop [V]	< 5.5
Minimum load current [mA]	5
Leakage current [mA]	< 1
Current rating	
- Current rating (continuous) [mA]	200
- Current rating (peak) [mA]	\hat{i} : 1.2 A (20 ms / 0.5 Hz)
Short-circuit protection	pulsed
Overload protection	yes
Switching frequency [Hz]	25
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]	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
MTTF [Years]	394
Mechanical data	

IGS002 - Inductive sensor - eclass: 27270101 / 27-27-01-01

Mounting	non-flush mountable
Housing materials	Brass white bronze coated; PBT (Pocan)
Weight [kg]	0.06
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