



Product characteristics

Inductive sensor
Metal thread M18 x 1
Quick disconnect
Increased sensing range
Optical setting aid (2 LED)
gold-plated contacts
Sensing range 12 mm; [nf] non-flush mountable

Electrical data

Electrical design	DC PNP/NPN
Operating voltage [V]	10...36 DC; cULus - Class 2 source required
Protection class	II
Reverse polarity protection	yes
Outputs	
Output function	normally open / closed programmable
Voltage drop [V]	< 4.6
Minimum load current [mA]	4
Leakage current [mA]	< 1
Current rating [mA]	100
Short-circuit protection	yes (non-latching)
Overload protection	yes
Switching frequency [Hz]	300
Monitoring 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 / aluminium approx. 0.5 / Cu approx. 0.4
Hysteresis [% of Sr]	1...20
Switch-point drift [% of Sr]	-10...10
Environment	
Ambient temperature [°C]	-25...70
Protection	IP 68; "Coolant"
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 61000-4-5 Surge: 0.5 kV (line to line, Ri: 20hm) EN 61000-4-6 HF conducted: 10 V EN 55011: class B
MTTF [Years]	814
Mechanical data	

IG5952 - Inductive sensor - eclass: 27270101 / 27-27-01-01

Mounting	non-flush mountable	
Housing materials	housing: brass safe-coated; active face: PBT safe-coated; lock nuts: brass coated	
Weight [kg]	0.081	
Displays / operating elements		
Output status indication LED	yellow (4 x 90°)	
Setting aid LED	red	
Electrical connection		
Connection	M12 connector	

Wiring



Accessories

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