

Product characteristics

Inductive sensor	
Metal thread M12 x 1	
Quick disconnect	
Increased sensing range	
gold-plated contacts	
Sensing range 7 mm; [nf] non-flush mountable	
Electrical data	
Electrical design	DC PNP/NPN
Operating voltage [V]	10...30 DC
Protection class	II
Reverse polarity protection	yes
Outputs	
Output function	normally open
Voltage drop [V]	< 2.5
Minimum load current [mA]	2
Leakage current [mA]	< 0.5
Current rating [mA]	100
Short-circuit protection	yes (non-latching)
Overload protection	yes
Switching frequency [Hz]	700
Monitoring range	
Sensing range [mm]	7
Real sensing range (Sr) [mm]	7 ± 10 %
Operating distance [mm]	0...5.7
Accuracy / deviations	
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
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]	2487
Mechanical data	
Mounting	non-flush mountable
Housing materials	brass white bronze coated; active face: PBT
Weight [kg]	0.025
Displays / operating elements	

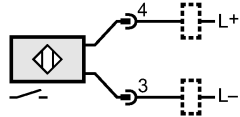
IFS203 - Inductive sensor - eclass: 27270101 / 27-27-01-01

Output status indication LED | yellow (4 x 90°)

Electrical connection

Connection | M12 connector; gold-plated contacts

Wiring



Accessories

Accessories (included) | 2 lock nuts

Remarks

Pack quantity [piece] | 1