

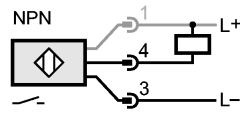
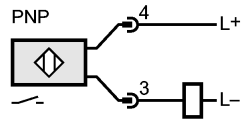
Product characteristics

Inductive sensor	
Metal thread M18 x 1	
Quick disconnect	
Increased sensing range	
gold-plated contacts	
Sensing range 12 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]	250
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. 0.4 / copper approx. 0.3
Hysteresis [% of Sr]	3...15
Switch-point drift [% of Sr]	-10...10
Environment	
Ambient temperature [°C]	-25...70
Protection	IP 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 61000-4-6 HF conducted: 10 V EN 55011: class B
MTTF [Years]	2655
Mechanical data	
Mounting	non-flush mountable
Housing materials	brass white bronze coated; active face: LCP

IGC203 - Inductive sensor - eclass: 27270101 / 27-27-01-01

Weight	[kg]	0.046
Displays / operating elements		
Output status indication	LED	yellow (4 x 90°)
Electrical connection		
Connection		M12 connector; gold-plated contacts

Wiring



Accessories		
Accessories (included)		2 lock nuts
Remarks		
Remarks		Conventional 3-wire npn sensors can be replaced. In this case pin 1 (grey in the wiring diagram) is not used.
Pack quantity	[piece]	1