

Product characteristics

Inductive sensor
Metal thread M18 x 1
Quick disconnect
Operation as 3-wire or 2-wire possible
Increased sensing range
Optical setting aid (2 LED)
gold-plated contacts
Sensing range 12 mm; [nfl] non-flush mountable

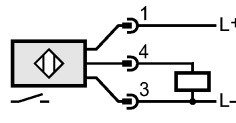
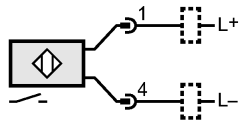
Electrical data		3-wire DC PNP; 2-wire DC PNP/NPN
Electrical design		3-wire DC PNP; 2-wire DC PNP/NPN
Operating voltage [V]		10...30 DC
Current consumption [mA]		12 (24 V)
Protection class		II
Reverse polarity protection		yes
Outputs		
Output function		normally open
Voltage drop [V]		< 2.8
Minimum load current [mA]		4
Leakage current [mA]		< 0.9; only in 2-wire operation
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. 0.4 / 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]		1359

IGC213 - Inductive sensor - eclass: 27270101 / 27-27-01-01

Mechanical data

Mounting		non-flush mountable
Housing materials		brass white bronze coated; active face: PBT
Weight	[kg]	0.071
Displays / operating elements		
Output status indication	LED	yellow
Setting aid	LED	red
Electrical connection		
Connection		M12 connector; gold-plated contacts

Wiring



Accessories

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