

1: locating groove



Product characteristics

Inductive sensor

Metal housing Ø 18 mm

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; [nfr] non-flush mountable

Electrical data

Electrical design

3-wire DC PNP; 2-wire DC PNP/NPN

Operating voltage [V]

10...30 DC

Current consumption [mA]

< 10

Protection class

II

Reverse polarity protection

yes

Outputs

Output function

normally open

Voltage drop [V]

< 2.8

Minimum load current [mA]

2; only in 2-wire operation

Leakage current [mA]

< 0.5; 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...9.72

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]

0...100

Protection

IP 68 / IP 69K

Tests / approvals

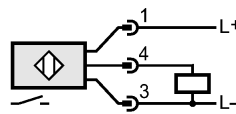
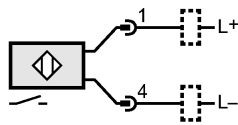
EMC

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

IGT211 - Inductive sensor - eclass: 27270101 / 27-27-01-01

MTTF	[Years]	1359
Mechanical data		
Mounting		non-flush mountable
Housing materials		stainless steel (316L); active face: PEEK (polyether ether ketone)
Weight	[kg]	0.043
Displays / operating elements		
Output status indication	LED	yellow
Setting aid	LED	red
Electrical connection		
Connection		M12 connector; gold-plated contacts

Wiring



Remarks		
Remarks		suitable for PLC type 1 according to IEC 61131-2
Pack quantity	[piece]	1