

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 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]

2655

Mechanical data

Mounting

non-flush mountable

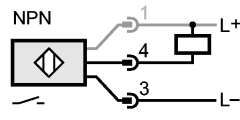
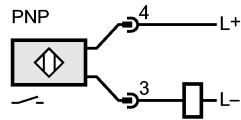
Housing materials

brass white bronze coated; active face: PBT (Pocan)

IGS203 - 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