

Product characteristics

Inductive sensor

Metal thread M12 x 1

Quick disconnect

Operation as 3-wire or 2-wire possible

Increased sensing range

Optical setting aid (2 LED)

gold-plated contacts

Ceramic sensing face

Sensing range 4 mm; [f] flush mountable

Electrical data

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]

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]

500

Monitoring range

Sensing range [mm]

4

Real sensing range (Sr) [mm]

4 ± 10 %

Operating distance [mm]

0...3.25

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]

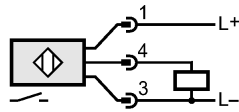
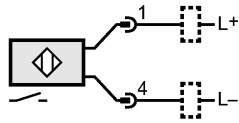
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Mechanical data

IFC210 - Inductive sensor - eclass: 27270101 / 27-27-01-01

Mounting	flush mountable
Housing materials	brass white bronze coated; active face: ceramics
Weight [kg]	0.04
Displays / operating elements	
Output status indication LED	yellow (4 x 90°)
Setting aid LED	red
Electrical connection	
Connection	M12 connector; gold-plated contacts

Wiring



Accessories	
Accessories (included)	2 lock nuts
Remarks	
Remarks	suitable for PLC type 1 according to IEC 61131-2
Pack quantity [piece]	1