

Product characteristics

Inductive sensor

Metal thread M12 x 1

Quick disconnect

Increased sensing range

gold-plated contacts

Sensing range 7 mm; [nf] non-flush mountable

Electrical data

Electrical design

DC NPN

Operating voltage [V]

10...36 DC

Current consumption [mA]

< 10

Protection class

II

Reverse polarity protection

yes

Outputs

Output function

normally open

Voltage drop [V]

< 2.5

Current rating [mA]

100

Short-circuit protection

yes (non-latching)

Overload protection

yes

Switching frequency [Hz]

700

Monitoring range

Sensing range [mm]

7

Real sensing range (Sr) [mm]

7 ± 10 %

Operating distance [mm]

0...5.7

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 61000-4-5 Surge: 0.5 kV (line to line, Ri: 20hm)  
 EN 61000-4-6 HF conducted: 10 V  
 EN 55011: class B

MTTF [Years]

1798

Mechanical data

Mounting

non-flush mountable

Housing materials

stainless steel (316L); active face: PEEK (polyether ether ketone)

Weight [kg]

0.029

Displays / operating elements

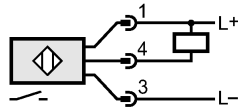
# IFT222 - Inductive sensor - eclass: 27270101 / 27-27-01-01

Output status indication	LED	yellow (4 x 90°)
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Electrical connection		
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Connection		M12 connector; gold-plated contacts
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### Wiring



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