

Product characteristics

Inductive sensor

Metal thread M12 x 1

Quick disconnect

Increased sensing range

Weld field immune

Correction factor = 1

gold-plated contacts

Sensing range 3 mm; [f] flush mountable

Electrical data

Electrical design

DC PNP

Operating voltage [V]

10...30 DC

Current consumption [mA]

< 20

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

Overload protection

yes

Switching frequency [Hz]

2000

Monitoring range

Sensing range [mm]

3

Real sensing range (Sr) [mm]

3 ± 10 %

Operating distance [mm]

0...2.4

Accuracy / deviations

Correction factors

mild steel = 1 / stainless steel approx. 1 / brass approx. 1 / aluminium approx. 1 / copper approx. 1

Hysteresis [% of Sr]

3...15

Switch-point drift [% of Sr]

-10...10

Environment

Ambient temperature [°C]

-25...70

Protection

IP 67

Max. electromagnetic field immunity [mT]

300

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]

665

UL approval number

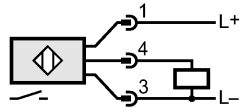
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Mechanical data

IFW200 - Inductive sensor - eclass: 27270101 / 27-27-01-01

Mounting	flush mountable
Housing materials	housing: brass weld coated; active face: LCP black; LED window: PEI; lock nuts: brass weld coated
Weight [kg]	0.037
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	
Pack quantity [piece]	1