

Product characteristics

Inductive sensor

Metal thread M8 x 1

Quick disconnect

Sensing range 1 mm; [f] flush mountable

Electrical data

Electrical design

DC PNP/NPN

Operating voltage [V]

5...36 DC; cULus - Class 2 source required

Protection class

III

Reverse polarity protection

no

Outputs

Output function

normally open / closed programmable

Voltage drop [V]

< 4.6

Minimum load current [mA]

4

Leakage current [mA]

< 0.8

Current rating [mA]

200

Short-circuit protection

no

Overload protection

no

Switching frequency [Hz]

2700

Monitoring range

Sensing range [mm]

1

Real sensing range (Sr) [mm]

1 ± 10 %

Operating distance [mm]

0...0.8

Accuracy / deviations

Correction factors

mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.4 / aluminium approx. 0.3 / copper approx. 0.2

Hysteresis [% of Sr]

1...15

Switch-point drift [% of Sr]

-10...10

Environment

Ambient temperature [°C]

-25...80

Protection

IP 67

Tests / approvals

EMC

EN 60947-5-2

EN 55011: class B

MTTF [Years]

3338

Mechanical data

Mounting

flush mountable

Housing materials

brass white bronze coated; active face: PBT

Weight [kg]

0.024

Displays / operating elements

Output status indication LED

yellow

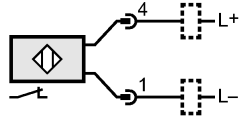
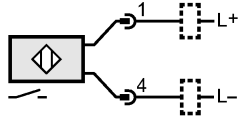
Electrical connection

Connection

M12 connector

**Wiring**

**IE5203 - Inductive sensor - eclass: 27270101 / 27-27-01-01**



Accessories

Accessories (included)

2 lock nuts

Remarks

Pack quantity

[piece]

1

ifm efector, inc. • 1100 Atwater Drive • Malvern • PA 19355 — We reserve the right to make technical alterations without prior notice. — US — IE5203 — 06.03.2003