

Product characteristics

Inductive sensor

Metal thread M12 x 1

Quick disconnect

Increased sensing range

gold-plated contacts

Sensing range 4 mm; [f] flush mountable

Electrical data

Electrical design

DC PNP

Operating voltage [V]

10...36 DC

Current consumption [mA]

15 (24 V)

Protection class

II

Reverse polarity protection

yes

Outputs

Output function

normally open

Voltage drop [V]

< 2.5

Current rating [mA]

200

Short-circuit protection

yes (non-latching)

Overload protection

yes

Switching frequency [Hz]

700

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. 0.5 / Cu approx. 0.4

Hysteresis [% of Sr]

1...20

Switch-point drift [% of Sr]

-10...10

Environment

Ambient temperature [°C]

-25...70

Protection

IP 68; "Coolant"

Tests / approvals

EMC

EN 60947-5-2

EN 55011:

class B

MTTF [Years]

1727

Mechanical data

Mounting

flush mountable

Housing materials

housing: brass white bronze coated; active face: LCP uncolored

Weight [kg]

0.029

Displays / operating elements

Output status indication LED

yellow

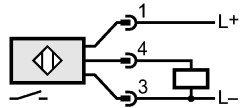
Electrical connection

Connection

M12 connector; gold-plated contacts

# IF5775 - Inductive sensor - eclass: 27270101 / 27-27-01-01

## Wiring



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 — IF5775 — 06.03.2003