

Product characteristics

Inductive sensor

Metal thread M12 x 1

Quick disconnect

gold-plated contacts

Sensing range 4 mm; [f] flush mountable

Electrical data

Electrical design

AS-i

Operating voltage [V]

26.5...31.6 DC (AS-i)

Current consumption [mA]

< 30

Protection class

III

Reverse polarity protection

yes

Outputs

Switching frequency [Hz]

100

Monitoring range

Sensing range [mm]

4

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

Reaction times

Power-on delay time [ms]

< 1000

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]

1679

AS-i classification

AS-i version

2.1

Extended addressing mode possible

yes

AS-i profile

S-0.A.F

I/O configuration [hex]

0

ID code [Hex]

A.F

AS-i certificate

57001

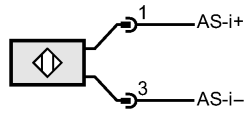
Data bits

| Data bit | D0 | D1 | D2 | D3 |
|-------------|----------------------------------|----------|----------|----------|
| Designation | switching signal | not used | not used | not used |
| State = 0 | Medium outside the active zone - | - | - | - |

IFC247 - Inductive sensor - eclass: 27270101 / 27-27-01-01

| | | | | | |
|-------------------------------|--|-------------------------------|---------------|---------------|---------------|
| | State = 1 | Medium within the active zone | default value | default value | default value |
| Mechanical data | | | | | |
| Mounting | flush mountable | | | | |
| Housing materials | stainless steel (316L); active face: LCP uncolored | | | | |
| Weight [kg] | 0.029 | | | | |
| Displays / operating elements | | | | | |
| Output status indication | LED | yellow (4 x 90°) | | | |
| Function display | LED | red | | | |
| Electrical connection | | | | | |
| Connection | M12 connector; gold-plated contacts | | | | |

Wiring



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