

Product characteristics

Inductive sensor

Metal thread M30 x 1.5

Quick disconnect

Operation as 3-wire or 2-wire possible

Increased sensing range

Optical setting aid (2 LED)

gold-plated contacts

Sensing range 22 mm; [nfl] non-flush mountable

Electrical data

Electrical design

3-wire DC PNP; 2-wire DC PNP/NPN

Operating voltage [V]

10...36 DC

Current consumption [mA]

10 (24 V)

Protection class

II

Reverse polarity protection

yes

Outputs

Output function

normally open

Voltage drop [V]

< 2.5

Minimum load current [mA]

2; only in 2-wire operation

Leakage current [mA]

< 0.5; only in 2-wire operation

Current rating [mA]

100

Short-circuit protection

yes (non-latching)

Overload protection

yes

Switching frequency [Hz]

100

Monitoring range

Sensing range [mm]

22

Real sensing range (Sr) [mm]

22 ± 10 %

Operating distance [mm]

0...17.82

Accuracy / deviations

Correction factors

mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / aluminium approx. 0.4 / copper approx. 0.3

Hysteresis [% of Sr]

3...15

Switch-point drift [% of Sr]

-10...10

Environment

Ambient temperature [°C]

-25...70

Protection

IP 67

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]

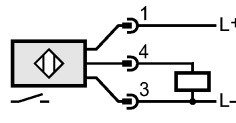
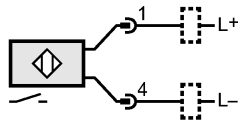
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IIS207 - Inductive sensor - eclass: 27270101 / 27-27-01-01

Mechanical data

| | | |
|-------------------------------|------|---|
| Mounting | | non-flush mountable |
| Housing materials | | brass white bronze coated; active face: PBT |
| Weight | [kg] | 0.131 |
| Displays / operating elements | | |
| Output status indication | LED | yellow (4 x 90°) |
| Setting aid | LED | red |
| Electrical connection | | |
| Connection | | M12 connector; gold-plated contacts |

Wiring



Accessories

| | | |
|------------------------|--|-------------|
| Accessories (included) | | 2 lock nuts |
|------------------------|--|-------------|

Remarks

| | | |
|---------|--|--|
| Remarks | | suitable for PLC type 1 according to IEC 61131-2 |
|---------|--|--|

| | | |
|---------------|---------|---|
| Pack quantity | [piece] | 1 |
|---------------|---------|---|