

1: LED yellow  
2: LED green



Product characteristics

Inductive sensor

Rectangular, plastics

Quick disconnect

5 positions of the sensing face selectable

Sensing range 35 mm; [nf] non-flush mountable

Electrical data

Electrical design

DC PNP

Operating voltage [V]

10...36 DC; cULus - Class 2 source required

Current consumption [mA]

< 20

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]

80

Monitoring range

Sensing range [mm]

35

Real sensing range (Sr) [mm]

35 ± 10 %

Operating distance [mm]

0...28.3

Accuracy / deviations

Correction factors

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

Hysteresis [% of Sr]

1...20

Switch-point drift [% of Sr]

-10...10

Environment

Ambient temperature [°C]

-25...70

Protection

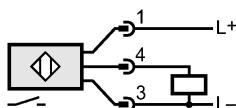
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Tests / approvals

**IM5116 - Inductive sensor - eclass: 27270101 / 27-27-01-01**

|                               |                            |                                   |
|-------------------------------|----------------------------|-----------------------------------|
| EMC                           | EN 61000-4-2 ESD:          | 8 kV CD / 6 kV AD                 |
|                               | EN 61000-4-3 HF radiated:  | 10 V/m                            |
|                               | EN 61000-4-4 Burst:        | 2 kV                              |
|                               | EN 61000-4-5 Surge:        | 0.5 kV (line to line, Ri: 20hm)   |
|                               | EN 61000-4-6 HF conducted: | 10 V                              |
|                               | EN 55011:                  | class B                           |
| MTTF                          | [Years]                    | 1494                              |
| Mechanical data               |                            |                                   |
| Mounting                      |                            | non-flush mountable               |
| Housing materials             |                            | PA (polyamide)                    |
| Weight                        | [kg]                       | 0.152                             |
| Displays / operating elements |                            |                                   |
| Output status indication      | LED                        | yellow                            |
| Power                         | LED                        | green                             |
| Electrical connection         |                            |                                   |
| Connection                    |                            | M12 connector; rotatable, locking |

**Wiring**



Remarks

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