

Product characteristics

Inductive sensor

Metal thread M30 x 1.5

Quick disconnect

Analog output 4...20 mA  
(linear, gradient: 1.778 mA/mm) \*)

Measuring range 1.0...10 mm; [f] flush mountable

Electrical data

Electrical design

DC analog

Operating voltage [V]

15...30 DC

Current consumption [mA]

< 20

Protection class

II

Reverse polarity protection

yes

Outputs

Output function

4...20 mA analog

Max. load [ $\Omega$ ]

500

Short-circuit protection

yes

Overload protection

yes

Monitoring range

Measuring range [mm]

1.0...10

Accuracy / deviations

Correction factors

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

Linearity error

$\pm 3\%$ ; of IA max

Temperature coefficient

$\pm 10\%$  of IA max at -25...70°C;  
 $\pm 15\%$  of IA max at 70...80°C

Repeatability

$\pm 2\%$ ; of IA max

Reaction times

Response time [ms]

< 10

Environment

Ambient temperature [°C]

-25...80

Protection

IP 67

Tests / approvals

MTTF [Years]

972

Mechanical data

Mounting

flush mountable

Housing materials

housing: brass white bronze coated; active face: PBT

Weight [kg]

0.15

Displays / operating elements

Display

within the operating range yellow (permanently lit)  
outside the operating range yellow (flashing)

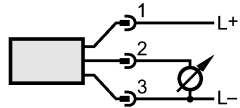
Electrical connection

Connection

M12 connector

# II5916 - Inductive sensor - eclass: 27270802 / 27-27-08-02

## Wiring



### Accessories

Accessories (included)

2 lock nuts

Remarks

\*) for target 30x30x1 mm made of mild steel and frontal approach

Pack quantity

[piece]

1