

Product characteristics

Inductive sensor

Metal thread M30 x 1.5

Quick disconnect

Analog output 0...10 V
(linear, gradient: 0.714 V/mm *)

Measuring range 1.0...15 mm; [nF] non-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

0...10 V analog

Min. load [Ω]

2000

Short-circuit protection

yes

Overload protection

yes

Monitoring range

Measuring range [mm]

1.0...15

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

± 1 %; of UA max

Temperature coefficient

± 5 % of UA max at -25...70°C;
 ± 10 % of UA max at 70...80°C

Repeatability

± 1 %; of UA max

Reaction times

Response time [ms]

< 20

Environment

Ambient temperature [°C]

-25...80

Protection

IP 67

Tests / approvals

MTTF [Years]

1005

Mechanical data

Mounting

non-flush mountable

Housing materials

housing: brass white bronze coated; active face: PBT

Weight [kg]

0.142

Displays / operating elements

Display

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

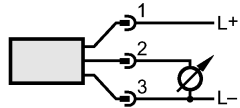
Electrical connection

Connection

M12 connector

II5914 - Inductive sensor - eclass: 27270802 / 27-27-08-02

Wiring



Accessories

Accessories (included)

2 lock nuts

Remarks

Remarks

*) for target 45x45x1 mm made of mild steel and frontal approach

Pack quantity

[piece]

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