

Product characteristics

Inductive sensor

Metal thread M12 x 1

Quick disconnect

Analog output 0...10 V
(linear, gradient: 5.55 V/mm) *)

Measuring range 0.2...2 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

0...10 V analog

Min. load [Ω]

2000

Short-circuit protection

yes

Overload protection

yes

Monitoring range

Measuring range [mm]

0.2...2

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 UA max

Repeatability

$\pm 2\%$; of UA max

Temperature coefficient

$\pm 10\%$; of UA max

Reaction times

Response time [ms]

< 10

Environment

Ambient temperature [$^{\circ}\text{C}$]

-25...80

Protection

IP 67

Tests / approvals

MTTF

[Years]

1009

Mechanical data

Mounting

flush mountable

Housing materials

housing: brass white bronze coated; active face: PBT

Weight [kg]

0.045

Displays / operating elements

Display

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

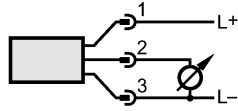
Electrical connection

Connection

M12 connector

Wiring

IF6029 - Inductive sensor - eclass: 27270802 / 27-27-08-02



Accessories

Accessories (included)

2 lock nuts

Remarks

Remarks

*) for target 12x12x1 mm made of mild steel and frontal approach

Pack quantity

[piece]

1