

Product characteristics

Inductive sensor

Metal thread M18 x 1

Quick disconnect

Analog output 4...20 mA

(linear, gradient: 2.22 mA/mm) \*)

Measuring range 0.8...8 mm; [nfl] 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

4...20 mA analog

Max. load [ $\Omega$ ]

500

Short-circuit protection

yes

Overload protection

yes

Monitoring range

Measuring range [mm]

0.8...8

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

$\pm 1\%$ ; of IA max

Repeatability

$\pm 1\%$ ; of IA max

Temperature coefficient

$\pm 5\%$ ; of IA max

Reaction times

Response time [ms]

< 10

Environment

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

-25...80

Protection

IP 67

Tests / approvals

MTTF

[Years]

936

Mechanical data

Mounting

non-flush mountable

Housing materials

housing: brass white bronze coated; active face: PBT

Weight [kg]

0.062

Displays / operating elements

Display

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

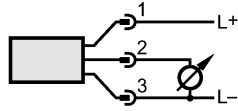
Electrical connection

Connection

M12 connector

**Wiring**

**IG6083 - Inductive sensor - eclass: 27270802 / 27-27-08-02**



Accessories	
Accessories (included)	2 lock nuts
Remarks	
Remarks	*) for target 24x24x1 mm made of mild steel and frontal approach
Pack quantity	[piece] 1