

Product characteristics

Inductive sensor

Metal thread M12 x 1

Quick disconnect

Weld field immune

gold-plated contacts

Correction factor = 1

Sensing range 8 mm; [nf] non-flush mountable

Electrical data

Electrical design

DC PNP

Operating voltage [V]

10...30 DC

Current consumption [mA]

20

Protection class

II

Reverse polarity protection

yes

Outputs

Output function

normally open

Voltage drop [V]

< 2.5

Current rating [mA]

100

Short-circuit protection

yes

Overload protection

yes

Switching frequency [Hz]

2000

Monitoring range

Sensing range [mm]

8

Real sensing range (Sr) [mm]

8 ± 10 %

Operating distance [mm]

0...6.5

Accuracy / deviations

Correction factors

mild steel = 1 / stainless steel approx. 1 / brass approx. 1 / aluminium approx. 1 / copper approx. 1

Hysteresis [% of Sr]

3...15

Switch-point drift [% of Sr]

-10...10

Environment

Ambient temperature [°C]

-25...70

Protection

IP 68; "Coolant"

Max. electromagnetic field immunity [mT]

300

Tests / approvals

EMC

EN 61000-4-2 ESD: 4 kV CD / 8 kV AD
 EN 61000-4-3 HF radiated: 10 V/m
 EN 61000-4-4 Burst: 2 kV
 EN 61000-4-6 HF conducted: 10 V
 EN 55011 (Emission): class B

MTTF [Years]

661

UL approval number

A005

Mechanical data

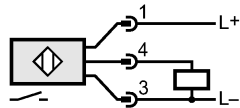
Mounting

non-flush mountable

IFC246 - Inductive sensor - eclass: 27270101 / 27-27-01-01

Housing materials	housing: stainless steel (316L); active face: LCP white; LED window: PEI; lock nuts: brass white bronze coated
Weight [kg]	0.029
Displays / operating elements	
Output status indication LED	yellow (4 x 90°)
Electrical connection	
Connection	M12 connector; gold-plated contacts

Wiring



Accessories	
Accessories (included)	2 lock nuts
Remarks	
Pack quantity [piece]	1