

Product characteristics

Inductive sensor

Metal thread M12 x 1

Quick disconnect

Increased sensing range

Optical setting aid (2 LED)

gold-plated contacts

Sensing range 7 mm; [nf] non-flush mountable

Electrical data

Electrical design

DC PNP/NPN

Operating voltage [V]

10...36 DC; cULus - Class 2 source required

Protection class

II

Reverse polarity protection

yes

Outputs

Output function

normally open / closed programmable

Voltage drop [V]

< 4.6

Minimum load current [mA]

4

Leakage current [mA]

< 1

Current rating [mA]

100

Short-circuit protection

yes (non-latching)

Overload protection

yes

Switching frequency [Hz]

700

Monitoring range

Sensing range [mm]

7

Real sensing range (Sr) [mm]

7 ± 10 %

Operating distance [mm]

0...5.7

Accuracy / deviations

Correction factors

mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / aluminium approx. 0.47 / Cu approx. 0.4

Hysteresis [% of Sr]

1...20

Switch-point drift [% of Sr]

-10...10

Environment

Ambient temperature [°C]

-25...70

Protection

IP 68; "Coolant"

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 61000-4-5 Surge: 0.5 kV (line to line, Ri: 20hm)  
 EN 61000-4-6 HF conducted: 10 V  
 EN 55011: class B

MTTF [Years]

879

Mechanical data

Mounting

non-flush mountable

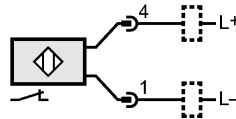
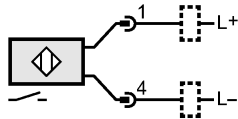
Housing materials

housing: brass safe-coated; active face: PBT safe-coated; lock nuts: brass safe-coated

# IF5935 - Inductive sensor - eclass: 27270101 / 27-27-01-01

Weight	[kg]	0.041
Displays / operating elements		
Output status indication	LED	yellow (4 x 90°)
Setting aid	LED	red
Electrical connection		
Connection		M12 connector

## Wiring



## Accessories

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