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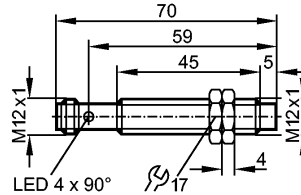
efectorio

IFT221



IFK3004-BPKG/M/V4A/US-104-DPS

Inductive sensors



Product characteristics

Inductive sensor

Metal thread M12 x 1

Quick disconnect

gold-plated contacts

Sensing range 4 mm; [nf] non-flush mountable

Electrical data

Electrical design

DC PNP

Operating voltage [V]

10...36 DC

Current consumption [mA]

< 10

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 (non-latching)

Overload protection

yes

Switching frequency [Hz]

800

Monitoring range

Sensing range [mm]

4

Real sensing range (Sr) [mm]

4 ± 10 %

Operating distance [mm]

0...3.25

Accuracy / deviations

Correction factors

mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / aluminium approx. 0.4 / copper approx. 0.3

Hysteresis [% of Sr]

1...20

Switch-point drift [% of Sr]

-10...10

Reaction times

Power-on delay time [ms]

10

Environment

Ambient temperature [°C]

0...100

Protection

IP 68 / IP 69K; "COP"

Tests / approvals

EMC

EN 61000-4-2 ESD:

8 kV CD / 6 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]

1896

Mechanical data

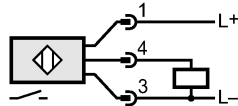
Mounting

non-flush mountable

IFT221 - Inductive sensor - eclass: 27270101 / 27-27-01-01

Housing materials	housing: stainless steel (316L); active face: LCP
Weight [kg]	0.031
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

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