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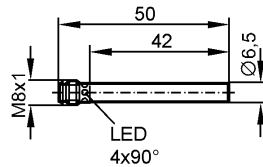
efector100

IT5023



ITB3001-ANKG/AS-514-TNS RT

Inductive sensors



Product characteristics

Inductive sensor

Metal housing \varnothing 6.5 mm

Quick disconnect

Sensing range 1 mm; [f] flush mountable

Electrical data

Electrical design

DC NPN

Operating voltage [V]

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

Current consumption [mA]

15 (24 V)

Protection class

III

Reverse polarity protection

yes

Outputs

Output function

normally open

Voltage drop [V]

< 2.5

Current rating [mA]

250

Short-circuit protection

yes (non-latching)

Overload protection

yes

Switching frequency [Hz]

2000

Monitoring range

Sensing range [mm]

1

Real sensing range (Sr) [mm]

1 \pm 10 %

Operating distance [mm]

0...0.8

Accuracy / deviations

Correction factors

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

Hysteresis [% of Sr]

3...15

Switch-point drift [% of Sr]

-10...10

Environment

Ambient temperature [°C]

-25...80

Protection

IP 67; if screwed on

Tests / approvals

EMC

EN 60947-5-2

EN 55011:

class B

Mechanical data

Mounting

flush mountable

Housing materials

brass nickel-plated; PBT

Weight [kg]

0.023

IT5023 - Inductive sensor - eclass: 27270101 / 27-27-01-01

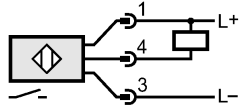
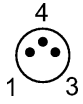
Displays / operating elements

Output status indication LED | red (4 x 90°)

Electrical connection

Connection | M8 connector

Wiring



Accessories

Accessories (included) | Mounting clamp

Remarks

Pack quantity [piece] | 1

ifm efector, inc. • 1100 Atwater Drive • Malvern • PA 19355 — We reserve the right to make technical alterations without prior notice. — US — IT5023 — 13.06.2005
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