

Product characteristics

Inductive sensor

Metal housing Ø 6.5 mm

Quick disconnect

Sensing range 1 mm; [f] flush mountable

Electrical data

Electrical design

DC PNP

Operating voltage [V]

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

Current consumption [mA]

15 (24 V)

Protection class

III

Reverse polarity protection

yes

Outputs

Output function

normally closed

Voltage drop [V]

< 2.5

Current rating [mA]

200

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 ± 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]

1...20

Switch-point drift [% of Sr]

-10...10

Environment

Ambient temperature [°C]

-25...80

Protection

IP 65 / IP 67; with ifm socket duly screwed on

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: 20Ω)
 EN 61000-4-6 HF conducted: 10 V
 EN 55011: class B

Shock resistance

EN 60947-5-2

Vibration resistance

EN 60947-5-2

MTTF [Years]

2359

Mechanical data

Mounting

flush mountable

Housing materials

housing: brass special coating; active face: LCP orange

Weight [kg]

0.018

Displays / operating elements

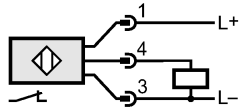
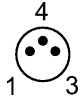
IT5020 - Inductive sensor - eclass: 27270101 / 27-27-01-01

Output status indication	LED	yellow (4 x 90°)
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Electrical connection		
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Connection		M8 connector
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Wiring



Accessories		
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Accessories (included)		Mounting clamp
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Remarks		
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Pack quantity	[piece]	1
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