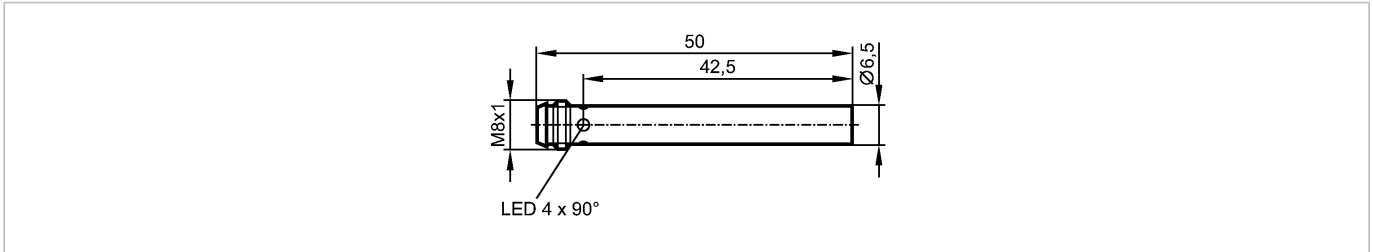




ITB3001-BPKG/AS

Inductive sensors



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 open

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 %

Safe switching off distance s(ar) [mm]

0.81

Accuracy / deviations

Correction factors

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: 20hm)

EN 61000-4-6 HF conducted:

10 V

EN 55011:

class B

Vibration resistance

EN 60947-5-2

Shock resistance

EN 60947-5-2

MTTF [Years]

2359

Mechanical data

Mounting

flush mountable

Housing materials

housing: brass white bronze coated; active face: LCP orange

Weight [kg]

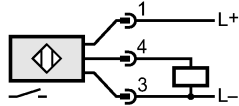
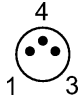
0.018

Displays / operating elements

# IT5021 - Inductive sensor - eclass: 27270101 / 27-27-01-01

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

## Wiring



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