

Product characteristics

Inductive sensor

Plastic housing Ø 34 mm

Quick disconnect

Sensing range 20 mm; [nf] non-flush mountable

Electrical data

Electrical design

Operating voltage [V]

Protection class

Reverse polarity protection

Outputs

Output function

Voltage drop [V]

Minimum load current [mA]

Leakage current [mA]

Current rating

- Current rating (continuous) [mA]

- Current rating (peak) [mA]

Short-circuit protection

Overload protection

Switching frequency [Hz]

Monitoring range

Sensing range [mm]

Real sensing range (Sr) [mm]

Operating distance [mm]

Accuracy / deviations

Correction factors

Hysteresis [% of Sr]

Switch-point drift [% of Sr]

Environment

Ambient temperature [°C]

Protection

Tests / approvals

EMC

Mechanical data

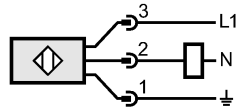
Mounting

	AC/DC
Operating voltage [V]	20...250 AC/DC
Protection class	II
Reverse polarity protection	no
Output function	normally open / closed programmable
Voltage drop [V]	< 6.5 AC / < 6 DC
Minimum load current [mA]	5
Leakage current [mA]	< 2.5 (250 V AC) / < 1.3 (110 V AC) / < 0.8 (24 V DC)
Current rating	
- Current rating (continuous) [mA]	250 AC / 100 DC; 350 AC (...50 °C)
- Current rating (peak) [mA]	î: 2.2 A (20 ms / 0.5 Hz)
Short-circuit protection	no
Overload protection	no
Switching frequency [Hz]	25 AC / 50 DC
Monitoring range	
Sensing range [mm]	20
Real sensing range (Sr) [mm]	20 ± 10 %
Operating distance [mm]	0...16.2
Accuracy / deviations	
Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.4 / 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 65
Tests / approvals	
EMC	EN 60947-5-2 EN 55011: class B
Mechanical data	
Mounting	non-flush mountable

IB3500 - Inductive sensor - eclass: 27270101 / 27-27-01-01

Housing materials	PBT; end cap: polycarbonate
Displays / operating elements	
Output status indication LED	red
Electrical connection	
Connection	7/8" connector

Wiring



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