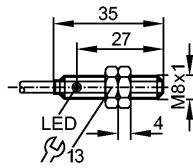


IE5099

IEC3002-BPOG

Inductive sensors



Product characteristics

Inductive sensor
Plastic thread M8 x 1
Cable
Sensing range 2 mm; [nf] non-flush mountable

Electrical data

Electrical design	DC PNP
Operating voltage [V]	10...36 DC
Current consumption [mA]	15 (24 V)
Protection class	III
Reverse polarity protection	no

Outputs

Output function	normally open
Voltage drop [V]	< 1
Current rating [mA]	200
Short-circuit protection	no
Overload protection	no
Switching frequency [Hz]	800

Monitoring range

Sensing range [mm]	2
Real sensing range (Sr) [mm]	2 ± 10 %
Operating distance [mm]	0...1.6

Accuracy / deviations

Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.4 / aluminium approx. 0.3 / copper approx. 0.2
Hysteresis [% of Sr]	1...15
Switch-point drift [% of Sr]	-10...10

Environment

Ambient temperature [°C]	-25...80
Protection	IP 67

Tests / approvals

EMC	EN 60947-5-2 EN 55011: class B
MTTF [Years]	5542

Mechanical data

Mounting	non-flush mountable
Housing materials	PBT
Weight [kg]	0.042

Displays / operating elements

IE5099

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Output status indication	LED	yellow
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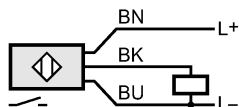
Electrical connection

Connection	PVC cable / 2 m; 3 x 0.14 mm ²
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Wiring

Core colors

- BN brown
- BU blue
- BK black



Accessories

Accessories (included)	2 lock nuts
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Remarks

Pack quantity	[piece]	1
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