



Product characteristics

Inductive sensor
Metal thread M30 x 1.5
Cable
Sensing range 10 mm; [f] flush mountable

Electrical data

Electrical design	DC PNP/NPN
Operating voltage [V]	10...55 DC
Protection class	II
Reverse polarity protection	yes

Outputs

Output function	normally open / closed programmable
Voltage drop [V]	< 4.6
Minimum load current [mA]	4
Leakage current [mA]	< 0.5
Current rating [mA]	400
Short-circuit protection	yes (non-latching)
Overload protection	yes
Switching frequency [Hz]	450

Monitoring range

Sensing range [mm]	10
Real sensing range (Sr) [mm]	10 ± 10 %
Operating distance [mm]	0...8.1

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]	1699

Mechanical data

Mounting	flush mountable
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I15489

I1A2010-FRKG/PH

Inductive sensors

Housing materials	brass nickel-plated; active face: PBT
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Weight [kg]	0.252
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Displays / operating elements

Output status indication	LED	yellow
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Electrical connection

Connection	PUR / PVC cable / 2 m; 2 x 0.5 mm ²
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Wiring

Core colors

BK black

WH white



Accessories

Accessories (included)	2 lock nuts
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Remarks

Pack quantity [piece]	1
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