



Made in Germany



**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		pulsed
Overload protection		yes
Switching frequency [Hz]		450

**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 / Al approx. 0.3 / Cu 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 <sup>2</sup>
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#### Wiring

Core colours

BK black

WH white



### Accessories

Accessories (included)	2 lock nuts
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### Remarks

Pack quantity [piece]	1
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