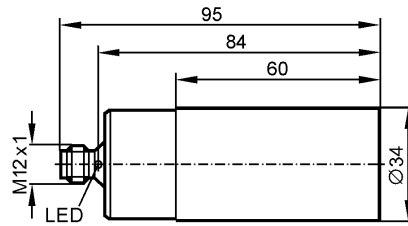


IB5169

IB-2020-FRKG/US-104-IRF

Inductive sensors



Made in Germany



Product characteristics

Inductive sensor

Plastic housing Ø 34 mm

Connector

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

Electrical data

Electrical design	DC PNP/NPN
Operating voltage [V]	10...36 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]	< 1
Current rating [mA]	250
Short-circuit protection	yes
Overload protection	yes
Switching frequency [Hz]	200

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. 0.5 / Al approx. 0.4 / Cu approx. 0.3
Hysteresis [% of Sr]	1...15
Switch-point drift [% of Sr]	-10...10

Environment

Ambient temperature [°C]	-25...70
Protection	IP 67

Tests / approvals

EMC	EN 60947-5-2
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IB5169

IB-2020-FRKG/US-104-IRF

Inductive sensors

MTTF	[Years]	2200
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Mechanical data		
Mounting		non-flush mountable
Housing materials		PBT; connector housing: Brass PTFE-coated
Weight	[kg]	0.233

Displays / operating elements		
Output status indication	LED	yellow (4 x 90°)

Electrical connection		
Connection		M12 connector

Wiring



Accessories

Accessories (included)		Mounting clamp
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Remarks

Pack quantity	[piece]	1
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