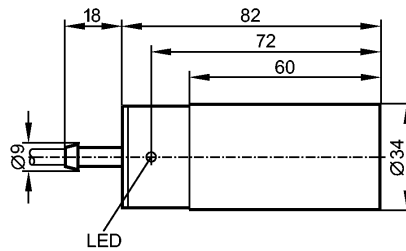


IB5131

IB-2020-FRKG/PH

Inductive sensors


Product characteristics

Inductive sensor

Plastic housing Ø 34 mm

Cable

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

Electrical data

Electrical design	DC
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]	300

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. 0.3 / copper approx. 0.2
Hysteresis [% of Sr]	3...15
Switch-point drift [% of Sr]	-10...10

Environment

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

Tests / approvals

EMC	EN 60947-5-2
MTTF [Years]	1699

Mechanical data

Mounting	non-flush mountable
Housing materials	PBT



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Weight	[kg]	0.246
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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 mm²
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Wiring

Core colors

BK black

WH white



Accessories

Accessories (included)	Mounting clamp
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Remarks

Pack quantity	[piece]	1
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