



Inductive sensor

IB-2020-FRKG/20M/XH

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Product characteristics

Output function		normally open / closed; (selectable)
Sensing range	[mm]	20
Housing		tubular
Dimensions	[mm]	Ø 34 / L = 82

Electrical data

Operating voltage	[V]	10...55 DC
Protection class		II
Reverse polarity protection		yes

Outputs

Output function		normally open / closed; (selectable)
Max. voltage drop switching output DC	[V]	4.6
Minimum load current	[mA]	4
Max. leakage current	[mA]	0.5
Permanent current rating of switching output DC	[mA]	400
Switching frequency DC	[Hz]	300
Short-circuit protection		yes
Type of short-circuit protection		yes (non-latching)
Overload protection		yes

Monitoring range

Sensing range	[mm]	20
Real sensing range Sr	[mm]	20 ± 10 %
Operating distance	[mm]	0...16.2

Accuracy / deviations

Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2
Hysteresis	[% of Sr]	3...15

IB5154



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Switch-point drift	[% of Sr]	-10...10
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Operating conditions

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

Tests / approvals

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

Mechanical data

Housing	tubular
Mounting	non-flush mountable
Dimensions	[mm] Ø 34 / L = 82
Material	PBT

Displays / operating elements

Display	Switching status	1 x LED, yellow
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Accessories

Items supplied	Mounting clamp: 1
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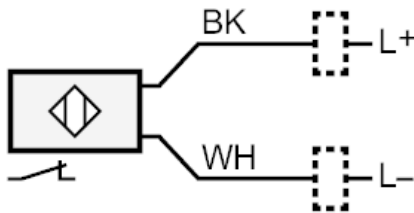
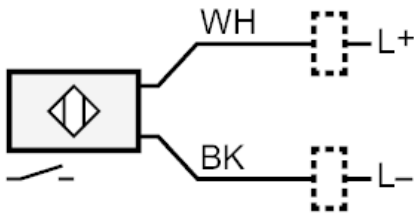
Remarks

Pack quantity	1 pcs.
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Electrical connection

Cable: 20 m, PUR; highly flexible; 2 x 0.5 mm²

Connection



BK = Core colors :
 black
WH = white