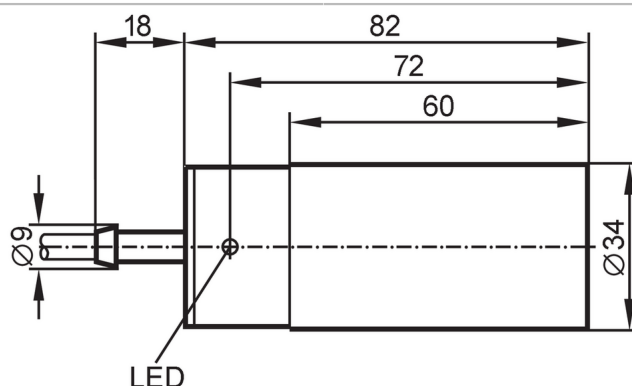


Inductive sensor

IB-2020-FRKG/6M/PH

Article to be discontinued

Discontinuation date: 03/31/2026



Product characteristics

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

Application

Application	Industrial applications
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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

IB5161



Inductive sensor

IB-2020-FRKG/6M/PH

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2	
Hysteresis [% of Sr]		3...15
Switch-point drift [% of Sr]		-10...10

Operating conditions

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

Tests / approvals

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

Mechanical data

Weight [g]	415
Housing	tubular
Mounting	non-flush mountable
Dimensions [mm]	Ø 34 / L = 82
Material	housing: 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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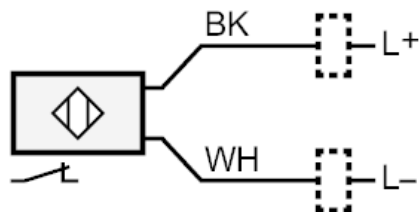
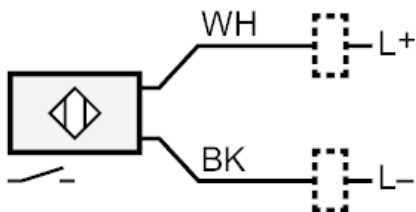
Remarks

Pack quantity	1 pcs.
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Electrical connection

Cable: 6 m, PUR / PVC; 2 x 0.5 mm²

Connection



BK = Core colors :
black
WH = white