



Inductive sensor

IB-3020-BPKG



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	20
Housing	tubular
Dimensions [mm]	Ø 34 / L = 82

Electrical data

Operating voltage [V]	10...36 DC
Current consumption [mA]	15; (24 V)
Protection class	II
Reverse polarity protection	yes

Outputs

Electrical design	PNP
Output function	normally open
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	250
Switching frequency DC [Hz]	60
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]	1...15

IB5096



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

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

EMC	EN 60947-5-2
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MTTF	[years]	1853
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Mechanical data

Weight	[g]	267.5
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Housing	tubular
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Mounting	non-flush mountable
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Dimensions	[mm]	Ø 34 / L = 82
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Material	PBT
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Displays / operating elements

Display	Switching status	1 x LED, yellow
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Accessories

Items supplied	Mounting clamp: 1 socket head screws: 2
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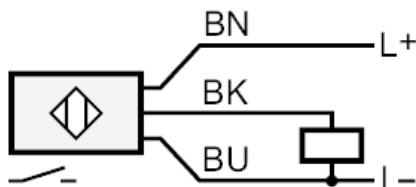
Remarks

Pack quantity	1 pcs.
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Electrical connection

Cable: 2 m, PVC; 3 x 0.5 mm²

Connection



BN =	Core colors :
BU =	brown
BK =	blue
	black