



Inductive sensor

IB-3020-BNOG

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Product characteristics

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

Electrical data

Operating voltage [V]	10...30 DC
Current consumption [mA]	7; (24 V)
Protection class	II
Reverse polarity protection	yes

Outputs

Electrical design	NPN
Output function	normally closed
Max. voltage drop switching output DC [V]	1.5
Permanent current rating of switching output DC [mA]	200
Switching frequency DC [Hz]	40
Short-circuit protection	yes
Type of short-circuit protection	yes (non-latching)
Overload protection	yes

Monitoring range

Sensing range [mm]	20
Real sensing range S_r [mm]	$20 \pm 10 \%$
Operating distance [mm]	0...16.2

Accuracy / deviations

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

Operating conditions

Ambient temperature [°C]	-25...80
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IB5003



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Protection	IP 67
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Tests / approvals

EMC	EN 60947-5-2	
	EN 55011	class B

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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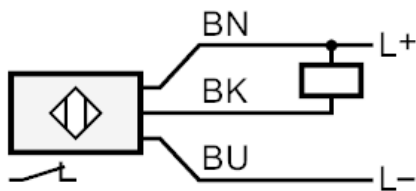
Remarks

Pack quantity	1 pcs.
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Electrical connection

Cable: 2 m, PVC; 3 x 0.5 mm²

Connection



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