



Inductive sensor

IB-3020-BPKG



Product characteristics		
Electrical design		PNP
Output function		normally open
Sensing range	[mm]	20
Housing		cylindrical
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		pulsed
Overload protection		yes
Detection zone		
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 / aluminium: 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	cylindrical
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Mounting	non-flush mountable
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Dimensions	[mm]	Ø 34 / L = 82
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Materials	PBT
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Displays / operating elements

Display	switching status	1 x LED, yellow
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Accessories

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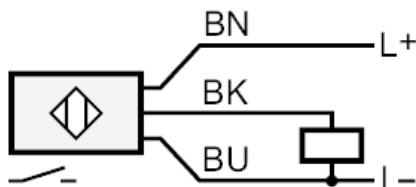
Remarks

Pack quantity	1 pcs.
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Electrical connection

Cable: 2 m, PVC; 3 x 0.5 mm²

Connection



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