



Inductive sensor

IFG3004-BNKG/M/5V/3,1M/PH/

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Product characteristics		
Electrical design		NPN
Output function		normally closed
Sensing range	[mm]	4
Housing		cylindrical
Dimensions	[mm]	Ø 12
Application		
Application		Use in machine tools, coolants and lubricants
Electrical data		
Operating voltage tolerance	[%]	10
Operating voltage	[V]	5 DC
Current consumption	[mA]	< 15
Protection class		II
Reverse polarity protection		no
Outputs		
Electrical design		NPN
Output function		normally closed
Max. voltage drop switching output DC	[V]	0.4



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Max. leakage current	[mA]	0.1
Permanent current rating of switching output DC	[mA]	10
Switching frequency DC	[Hz]	700
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes

Detection zone

Sensing range	[mm]	4
Operating distance	[mm]	0...3.25

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3	
Hysteresis	[% of Sr]	1...20

Operating conditions

Ambient temperature	[°C]	-25...70
Protection	IP 68; ("Coolant")	

Tests / approvals

EMC	EN 61000-4-2 ESD	4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated	10 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-6 HF conducted	10 V
	EN 55011	class B

Mechanical data

Housing	cylindrical	
Mounting	non-flush mountable	
Dimensions	[mm]	Ø 12
Materials	sensing face: LCP; housing: stainless steel; Angle brackets: stainless steel; LED window: PEI	

Displays / operating elements

Display	switching status	1 x LED, yellow
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Remarks

Pack quantity	1 pcs.	
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Electrical connection

Cable: 3.1 m, PUR / PVC; 3 x 0.34 mm²

Connection



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