

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
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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



Inductive sensor

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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	[X01]	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; Кутовий кронштейн: stainless steel; LED window: PEI
Displays / operating elements		
Display	switching status	1 x LED, yellow
Remarks		
Pack quantity		1 pcs.

IFC223



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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