IFC231

Inductive sensor

IFG3004-BNKG/M/5V/0,46M/PH/

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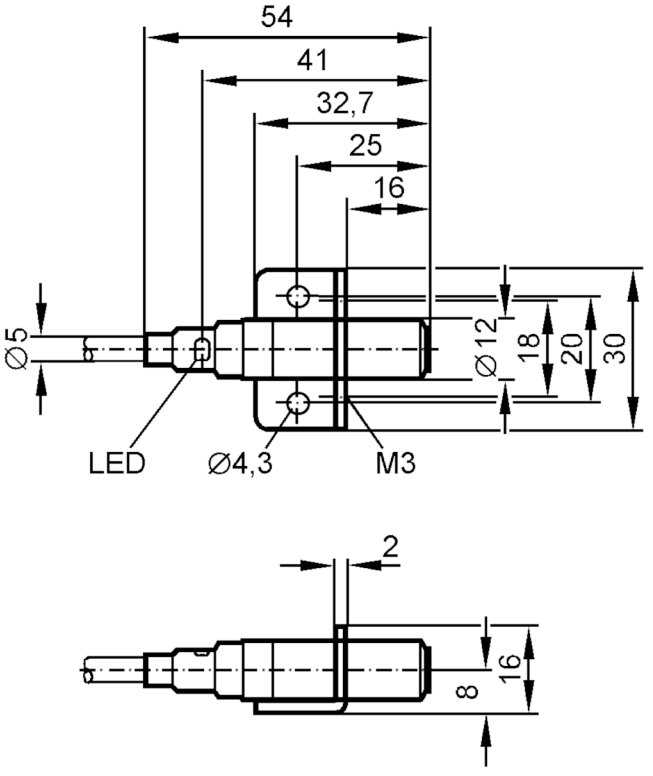

CE

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
Remarks			
Pack quantity		1 pcs.	

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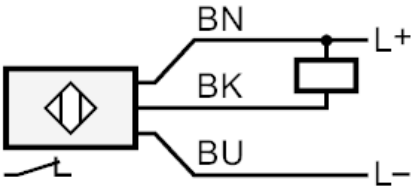
Electrical connection

Cable: 0.46 m, PUR / PVC; 3 x 0.34 mm²

Connection



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