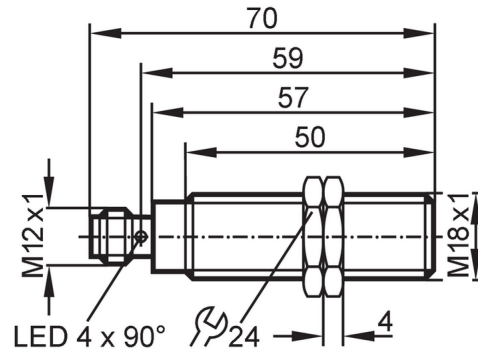




Inductive full-metal sensor

IGK3005-BPKG/AM/US-104



Product characteristics	
Electrical design	PNP
Output function	normally open
Sensing range [mm]	5
Housing	threaded type
Dimensions [mm]	M18 x 1 / L = 70
Application	
Special feature	Gold-plated contacts; Full-metal housing
Application	Use in machine tools, coolants and lubricants
Pressure rating	100 bar / 10 MPa
Note on pressure rating	sensing face
Electrical data	
Operating voltage [V]	10...36 DC
Current consumption [mA]	< 20
Protection class	III
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]	100
Switching frequency DC [Hz]	100
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes
Detection zone	
Sensing range [mm]	5
Operating distance [mm]	0...4.05
Accuracy / deviations	
Correction factor	steel: 1 / stainless steel: 0.5 / brass: 0.5 / aluminium: 0.3 / copper: 0.1

IGC248



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Hysteresis	[% of Sr]	1...20
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Operating conditions

Ambient temperature	[°C]	-25...70
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Protection	IP 67; IP 68; ("Coolant")
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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 emission	class B

Impact resistance	1 J
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MTTF	[years]	1258
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UL approval	Ta	-25...70 °C
	Enclosure type	Type 1
	voltage supply	Limited Voltage/Current
	UL approval no.	A012
	File number UL	E174191

Mechanical data

Weight	[g]	55.3
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Housing	threaded type
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Mounting	flush mountable
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Dimensions	[mm]	M18 x 1 / L = 70
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Thread designation	M18 x 1
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Materials	housing: stainless steel (316L/1.4404); sensing face: stainless steel (316L/1.4404); LED window: PA; lock nuts: stainless steel (316L/1.4404)
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Full-metal housing	yes
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Displays / operating elements

Display	switching status	4 x 90° LED, yellow
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Accessories

Items supplied	lock nuts: 2
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Remarks

Pack quantity	1 pcs.
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Electrical connection - plug

Connector: 1 x M12; coding: A; Contacts: 4, gold-plated



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Connection

