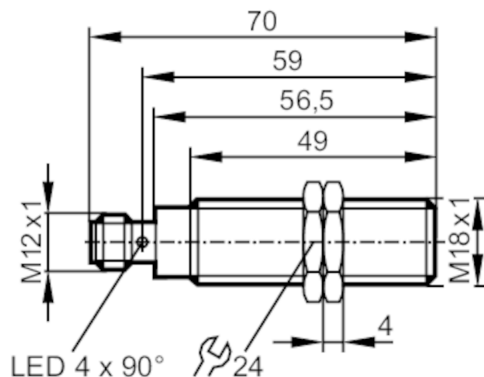


IGK3005-BPKG/M/US-104-DPS/K0



Electrical design	PNP
Output function	normally open
Sensing range [mm]	5
Housing	threaded type
Dimensions [mm]	M18 x 1 / L = 70

Special feature	Gold-plated contacts
Application	Use in machine tools, coolants and lubricants
Media	ferrous only; aluminium chip immune

Operating voltage	[V]	10...30 DC
Current consumption	[mA]	< 10
Protection class		III
Reverse polarity protection		yes

Electrical design	PNP
Output function	normally open
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	200
Switching frequency DC [Hz]	25
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes

Sensing range	[mm]	5
Real sensing range S_r	[mm]	$5 \pm 10 \%$



Inductive sensor

IGK3005-BPKG/M/US-104-DPS/K0

Operating distance	[mm]	0...4.05
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Operating conditions

Ambient temperature	[°C]	0...60
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Protection	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	class B

MTTF	[years]	1514
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UL approval	Ta	0...60 °C
	Enclosure type	Type 1
	power supply	Class 2
	File number UL	E174191

Mechanical data

Weight	[g]	63.5
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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: brass white bronze coated; sensing face: stainless steel (303/1.4305)
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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: gold-plated



Inductive sensor

IGK3005-BPKG/M/US-104-DPS/K0

Connection

