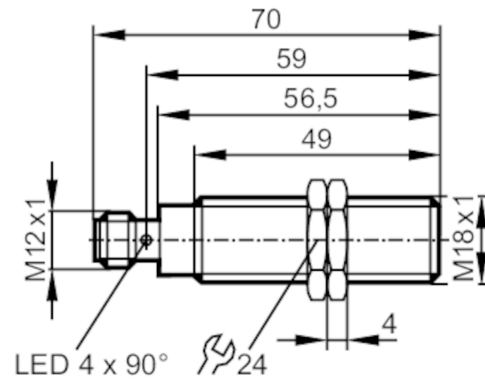




Inductive sensor

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



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
Application	Use in machine tools, coolants and lubricants
Media	ferrous only; aluminium chip immune

Electrical data

Operating voltage [V]	10...30 DC
Current consumption [mA]	< 10
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]	200
Switching frequency DC [Hz]	25
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes

Detection zone

Sensing range [mm]	5
Real sensing range Sr [mm]	5 ± 10 %

IGC211



Inductive sensor

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Operating distance [mm] 0...4.05

Operating conditions

Ambient temperature [°C] 0...60

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

MTTF [years] 1514

UL approval	Ta	0...60 °C
	Enclosure type	Type 1
	power supply	Class 2
	File number UL	E174191

Mechanical data

Weight [g] 63.5

Housing threaded type

Mounting flush mountable

Dimensions [mm] M18 x 1 / L = 70

Thread designation M18 x 1

Materials housing: brass white bronze coated; sensing face: stainless steel (1.4305 / 303)

Displays / operating elements

Display switching status 4 x 90° LED, yellow

Accessories

Items supplied lock nuts: 2

Remarks

Pack quantity 1 pcs.

Electrical connection - plug

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



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Connection

