

IG7104



Inductive sensor

IGK3005-BPKG/2M/PUR



1 LED yellow



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	5
Housing	Threaded type
Dimensions [mm]	M18 x 1 / L = 60

Application

Application	Suitable for industrial, mobile, cooling and lubricating applications; Industrial applications
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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]	100
Switching frequency DC [Hz]	400
Short-circuit protection	yes
Overload protection	yes

Monitoring range

Sensing range [mm]	5
Real sensing range Sr [mm]	5 ± 10 %
Operating distance [mm]	0...4.05

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.4 / copper: 0.3
Hysteresis [% of Sr]	3...15
Switch-point drift [% of Sr]	-10...10

Operating conditions

Ambient temperature [°C]	-25...75
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Protection		IP 67	
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]	1123	
Embedded software included		no	
UL approval	Ta		-25...75 °C
	Enclosure type		Type 1
	voltage supply		Limited Voltage/Current
	UL approval number		A002
	File number UL		E174191
Mechanical data			
Weight	[g]	94.5	
Housing		Threaded type	
Mounting		flush mountable	
Dimensions	[mm]	M18 x 1 / L = 60	
Thread designation		M18 x 1	
Material		housing: brass white bronze coated; sensing face: PBT orange; LED window: PEI; lock nuts: brass white bronze coated	
Tightening torque	[Nm]	25	
Displays / operating elements			
Display		Switching status	1 x LED, yellow
Accessories			
Items supplied		lock nuts: 2	
Remarks			
Pack quantity		1 pcs.	

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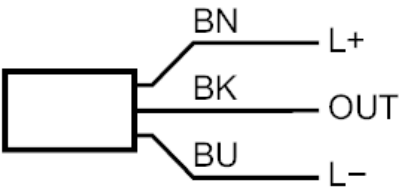
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Electrical connection

Cable: 2 m, PUR, Ø 4.0 mm; 3 x 0.34 mm²

Connection



	Core colors :	
BK =	black	
BN =	brown	
BU =	blue	
BN	L+	
BK	OUT	DO (NO)
BU	L-	
DO: digital output; NO: normally open		