

IG509A



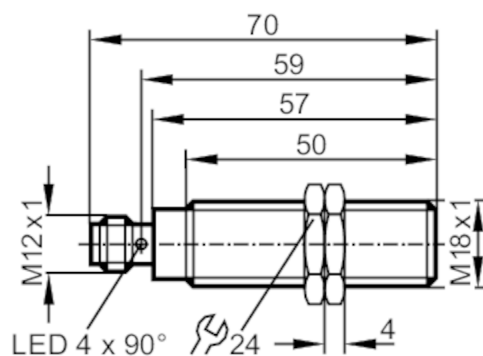
Inductive full-metal sensor

IGK3005-BPKG/AM/US104DPS/3G/3D

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Alternative articles: IG510A

When selecting an alternative article and accessories please note that technical data may differ!



Product characteristics

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

Application

System	gold-plated contacts; Full-metal housing
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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	yes (non-latching)
Overload protection	yes

Monitoring range

Sensing range [mm]	5
Operating distance [mm]	0...4.05

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Accuracy / deviations		
Correction factor	steel: 1 / stainless steel: 0.7	
Hysteresis [% of Sr]	1...20	
Operating conditions		
Ambient temperature [°C]	0...60	
Protection	IP 67	
Tests / approvals		
ATEX marking	II 3G Ex nA II T6 X	
	II 3D Ex tD A22 IP67 T80°C X	
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
Mechanical data		
Weight [g]	0.076	
Housing	Threaded type	
Mounting	flush mountable	
Dimensions [mm]	M18 x 1 / L = 70	
Thread designation	M18 x 1	
Material	housing: stainless steel; sensing face: stainless steel; LED window: PEI	
Full-metal housing	yes	
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

