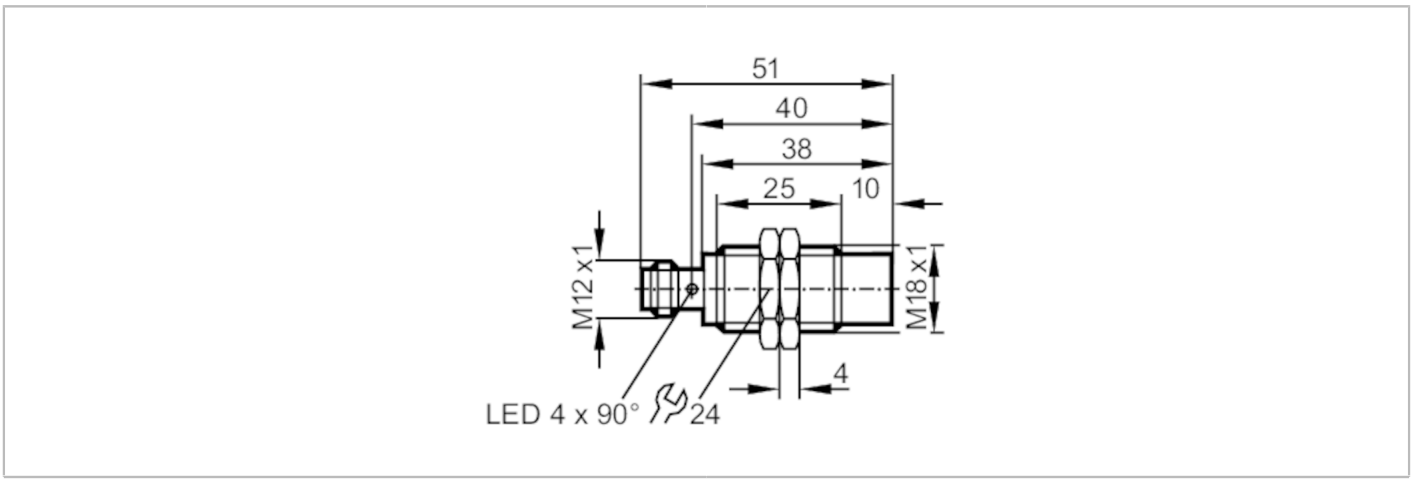
IGC201

Inductive sensor

IGB2012-ARKG/M/US-104-DRS



Product characteristics		
Electrical design		PNP/NPN
Output function		normally open
Sensing range	[mm]	12
Housing		threaded type
Dimensions	[mm]	M18 x 1 / L = 51
Application		
Special feature		Gold-plated contacts; Increased sensing range
Application		Use in machine tools, coolants and lubricants
Electrical data		
Operating voltage	[V]	10...30 DC
Protection class		II
Reverse polarity protection		yes
Outputs		
Electrical design		PNP/NPN
Output function		normally open
Max. voltage drop switching output DC	[V]	2.5
Minimum load current	[mA]	2
Max. leakage current	[mA]	0.5
Permanent current rating of switching output DC	[mA]	100
Switching frequency DC	[Hz]	250
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes
Detection zone		
Sensing range	[mm]	12
Real sensing range Sr	[mm]	12 ± 10 %

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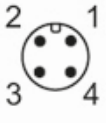
Operating distance	[mm]	0...9.7	
Increased sensing range		yes	
Accuracy / deviations			
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3	
Hysteresis	[% of Sr]	3...15	
Switch point drift	[% of Sr]	-10...10	
Operating conditions			
Ambient temperature	[°C]	-25...70	
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]	2655	
UL approval		Ta	0...40 °C
		Enclosure type	Type 1
		power supply	Hazardous voltage
		File number UL	E174191
Mechanical data			
Weight	[g]	54.8	
Housing		threaded type	
Mounting		non-flush mountable	
Dimensions	[mm]	M18 x 1 / L = 51	
Thread designation		M18 x 1	
Materials		housing: brass white bronze coated; sensing face: LCP	
Displays / operating elements			
Display		switching status	4 x 90° LED, yellow
Accessories			
Items supplied		lock nuts: 2	
Remarks			
Remarks		Conventional 3-wire pnp sensors can be replaced.	
		In this case pin 3 (grey in the wiring diagram) is not used.	
Pack quantity		1 pcs.	

Electrical connection - plug

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



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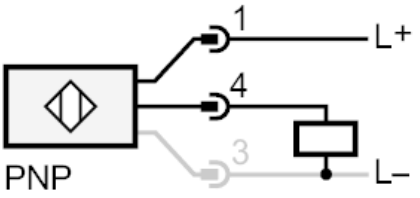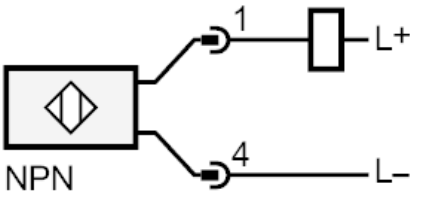
Connection