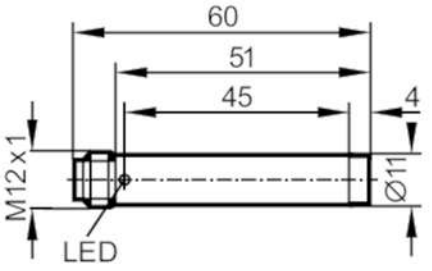
IF5807

Inductive sensor

IFG3004-BPKG/V4A/US-104-DPS



Product characteristics		
Electrical design		PNP
Output function		normally open
Sensing range	[mm]	4
Housing		cylindrical
Dimensions	[mm]	Ø 11 / L = 60
Application		
Special feature		Gold-plated contacts
Application		Industrial applications / factory automation
Electrical data		
Operating voltage	[V]	10...36 DC
Current consumption	[mA]	15; (24 V)
Protection class		II
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]	250
Switching frequency DC	[Hz]	1400
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes
Detection zone		
Sensing range	[mm]	4
Real sensing range Sr	[mm]	4 ± 10 %
Operating distance	[mm]	0...3.25
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

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Operating conditions			
Ambient temperature	[°C]	-25...80	
Protection		IP 67	
Tests / approvals			
EMC		EN 60947-5-2	
		EN 55011	class B
MTTF	[years]	1971	
Mechanical data			
Weight	[g]	15.4	
Housing		cylindrical	
Mounting		non-flush mountable	
Dimensions	[mm]	Ø 11 / L = 60	
Materials		stainless steel (1.4571/316Ti); PC	
Displays / operating elements			
Display		switching status	4 x 90° LED, yellow
Remarks			
Pack quantity		1 pcs.	

Electrical connection - plug

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



Connection

