IFC245

Inductive sensor

IFK3003BBPKG/M/K1/US-104-DPS

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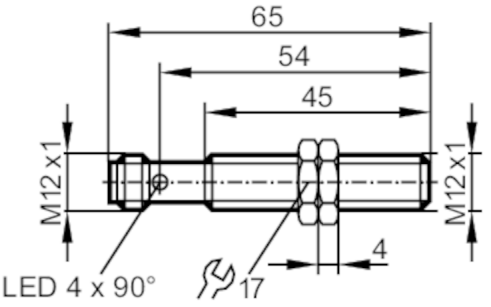

Product characteristics		
Electrical design		PNP
Output function		normally open
Sensing range	[mm]	3
Housing		threaded type
Dimensions	[mm]	M12 x 1 / L = 65
Application		
Special feature		Gold-plated contacts; Correction factor K = 1
Application		Use in machine tools, coolants and lubricants
Electrical data		
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	20
Protection class		II
Reverse polarity protection		yes
Outputs		
Electrical design		PNP
Output function		normally open
Max. voltage drop switching output DC	[V]	2.5
Max. leakage current	[mA]	0.1
Permanent current rating of switching output DC	[mA]	200
Switching frequency DC	[Hz]	2000
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes

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Detection zone			
Sensing range	[mm]	3	
Real sensing range Sr	[mm]	3 ± 10 %	
Operating distance	[mm]	0...2.4	
Accuracy / deviations			
Correction factor		steel: 1 / stainless steel: 1 / brass: 1 / aluminium: 1 / copper: 1	
Switch point drift	[% of Sr]	-10...10	
Correction factor K = 1		yes	
Operating conditions			
Ambient temperature	[°C]	-25...70	
Protection		IP 68; ("Coolant")	
Mechanical data			
Housing		threaded type	
Mounting		flush mountable	
Dimensions	[mm]	M12 x 1 / L = 65	
Thread designation		M12 x 1	
Materials		housing: stainless steel (316L/1.4404); sensing face: LCP	
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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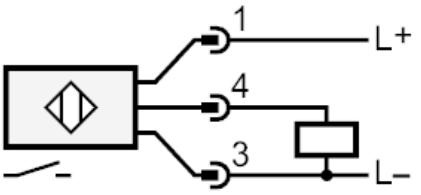
Connection