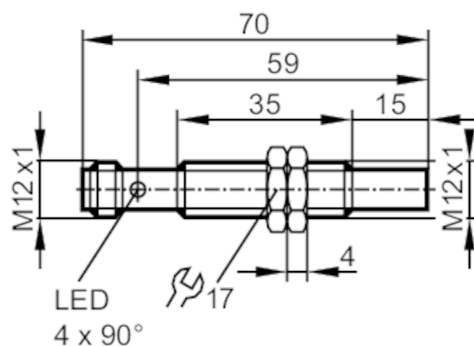




Inductive full-metal sensor

IFK3008-BPKG/M/AM/V4A/US104DPS

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Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	8
Housing	Threaded type
Dimensions [mm]	M12 x 1 / L = 70

Application

System	gold-plated contacts; Full-metal housing; correction factor = 1
Application	Washdown applications

Electrical data

Operating voltage [V]	10...30 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
Max. leakage current [mA]	0.1
Permanent current rating of switching output DC [mA]	100
Short-circuit protection	yes
Type of short-circuit protection	yes (non-latching)
Overload protection	yes

Monitoring range

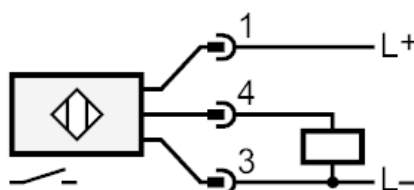
Sensing range [mm]	8
Real sensing range Sr [mm]	8 ± 10 %
Operating distance [mm]	0...6.48



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Accuracy / deviations		
Correction factor	steel: 1 / stainless steel: 1 / brass: 1 / aluminum: 1 / copper: 1	
Hysteresis	[% of Sr]	1...15
Switch-point drift	[% of Sr]	-10...10
Correction factor = 1	yes	
Operating conditions		
Ambient temperature	[°C]	0...100
Protection	IP 68; IP 69K	
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 61000-4-5 Surge	0,5 kV line to line, Ri: 2 Ohm
	EN 61000-4-6 HF conducted	10 V
	EN 55011	class B
Mechanical data		
Housing	Threaded type	
Mounting	non-flush mountable	
Dimensions	[mm]	M12 x 1 / L = 70
Thread designation	M12 x 1	
Material	housing: stainless steel (1.4404 / 316L); sensing face: stainless steel (1.4404 / 316L)	
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		
Connection		



Connector: 1 x M12; Contacts: gold-plated