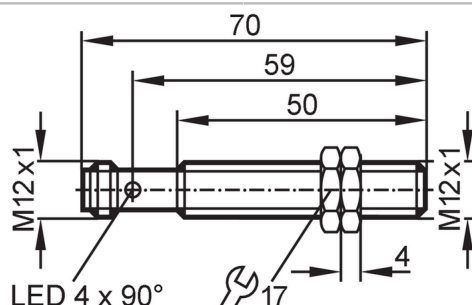




Inductive sensor

IFKC004BASKG/M/US-104-DRS/2LED



Product characteristics

Electrical design	PNP/NPN
Output function	normally open
Sensing range [mm]	4
Housing	threaded type
Dimensions [mm]	M12 x 1 / L = 70

Application

Special feature	Gold-plated contacts; Increased sensing range; Optical setting aid
Application	Industrial applications / factory automation; Use in machine tools, coolants and lubricants

Electrical data

Operating voltage [V]	10...30 DC
Current consumption [mA]	12; (24 V)
Protection class	II
Reverse polarity protection	yes

Outputs

Electrical design	PNP/NPN
Output function	normally open
Max. voltage drop switching output DC [V]	2.8
Minimum load current [mA]	2; (only in 2-wire operation)
Max. leakage current [mA]	0.5; (only in 2-wire operation)
Permanent current rating of switching output DC [mA]	100
Switching frequency DC [Hz]	500
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes

Detection zone

Sensing range [mm]	4
Real sensing range S_r [mm]	$4 \pm 10 \%$
Operating distance [mm]	0...3.25
Increased sensing range	yes



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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]	1306		
UL approval		Ta		0...40 °C
		Enclosure type		Type 1
		File number UL		E174191
Mechanical data				
Weight		[g]	33.6	
Housing		threaded type		
Mounting		flush mountable		
Dimensions		[mm]	M12 x 1 / L = 70	
Thread designation		M12 x 1		
Materials		housing: brass white bronze coated; sensing face: ceramics		
Displays / operating elements				
Display		switching status		4 x 90° LED, yellow
		setting aid		1 x LED, red
Optical setting aid		yes		
Accessories				
Items supplied		lock nuts: 2		
Remarks				
Remarks		suitable for PLC type 1 according to IEC 61131-2		
Pack quantity		1 pcs.		

IFC210



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Electrical connection - plug

Connector: 1 x M12; coding: A; Contacts: 4, gold-plated

