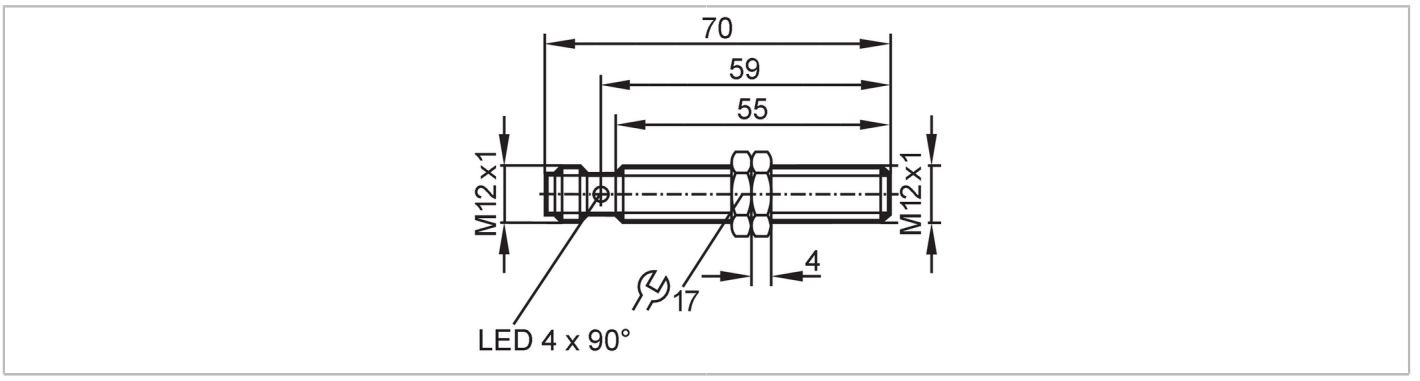
IFT205

Inductive sensor

IFKC004BASKG/2LED/V4A/US-104



EC 1935/2004

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		Use in hygienic areas / regular cleaning processes
Electrical data		
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	< 15
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; (only in 2-wire operation)
Max. leakage current	[mA]	0.6
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 Sr	[mm]	4 ± 10 %
Operating distance	[mm]	0...3.24
Increased sensing range		yes

IFT205

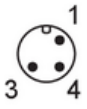
Inductive sensor

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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]	1...20	
Switch point drift	[% of Sr]	-10...10	
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 mains line to line
		EN 61000-4-6 HF conducted	10 V
		EN 55011	class B
MTTF	[years]	1058	
UL approval		Ta	0...40 °C
		Enclosure type	Type 1
		voltage supply	Limited Voltage/Current
		UL approval no.	A039
		File number UL	E174191
Mechanical data			
Weight	[g]	30.95	
Housing		threaded type	
Mounting		flush mountable	
Dimensions	[mm]	M12 x 1 / L = 70	
Thread designation		M12 x 1	
Materials		housing: stainless steel (316L/1.4404); sensing face: PEEK natural; LED window: PEI; lock nuts: stainless steel (316L/1.4404)	
Tightening torque	[Nm]	15	
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.	

Electrical connection - plug

Connector: 1 x M12; coding: A; Contacts: 3, gold-plated



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Connection

