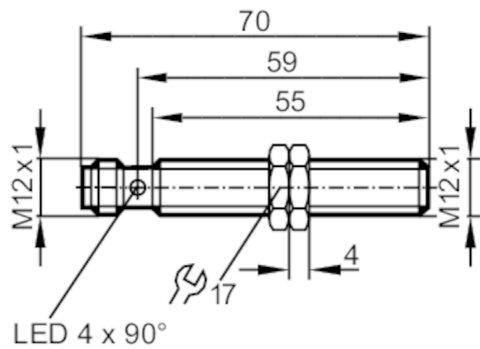




Inductive sensor

IFKC004BASKG/2LED/US-104



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
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]	2.8
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]	700
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



Inductive sensor

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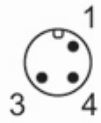
Increased sensing range		yes	
Accuracy / deviations			
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3	
Hysteresis [% of Sr]		1...20	
Switch point drift [% of Sr]		-10...10	
Operating conditions			
Ambient temperature [°C]		-25...70	
Protection		IP 67	
Tests / 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]	1548		
UL approval	Ta		0...40 °C
	Enclosure type		Type 1
	power supply		Limited Voltage/Current
	UL approval no.		A070
	File number UL		E174191
Mechanical data			
Weight [g]	31.1		
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: PBT orange; LED window: PEI; lock nuts: brass white bronze coated		
Tightening torque [Nm]	7		
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.		

Inductive sensor

IFKC004BASKG/2LED/US-104

Electrical connection - plug

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



Connection

