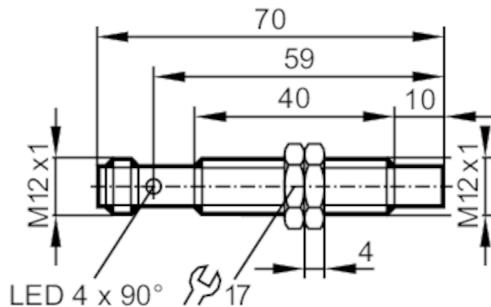


Inductive full-metal sensor

IFK3006-BPKG/AM/P/US



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	6
Housing	threaded type
Dimensions [mm]	M12 x 1 / L = 70

Application

Special feature	Gold-plated contacts; Increased sensing range; Full-metal housing
Application	constant cleaning with aggressive cleaning agents; regular cleaning processes
Pressure rating [bar]	100
Note on pressure rating	sensing face

Electrical data

Operating voltage [V]	10...36 DC
Current consumption [mA]	< 25
Protection class	III
Reverse polarity protection	yes

Outputs

Electrical design	PNP
Output function	normally open
Max. voltage drop switching output DC [V]	2.5
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]	6
Real sensing range Sr [mm]	6 ± 10 %
Operating distance [mm]	0...4.9

Inductive full-metal sensor

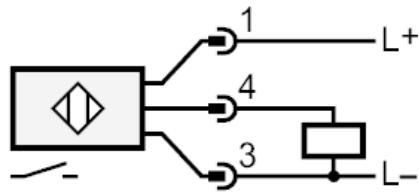
IFK3006-BPKG/AM/P/US

Increased sensing range	yes			
Accuracy / deviations				
Correction factor	steel: 1 / stainless steel: 1 / brass: 0.9 / aluminium: 0.75 / copper: 0.6			
Hysteresis	[% of Sr]			
Switch point drift	[% of Sr]			
Operating conditions				
Ambient temperature	[°C]	0...100		
Protection	IP 65; IP 67; 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 61000-4-6 HF conducted	10 V		
	EN 55011 emission	class B		
Impact resistance		1 J		
MTTF	[years]	1265		
UL approval	Ta	0...40 °C		
	Enclosure type	Type 1		
	power supply	Limited Voltage/Current		
	File number UL	E174191		
Mechanical data				
Weight	[g]	29.75		
Housing	threaded type			
Mounting	non-flush mountable			
Dimensions	[mm]	M12 x 1 / L = 70		
Thread designation	M12 x 1			
Materials	housing: stainless steel (316L/1.4404); sensing face: stainless steel (316L/1.4404); LED window: PEI; lock nuts: stainless steel (316L/1.4404)			
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 - plug				
Connector: 1 x M12; coding: A; Contacts: gold-plated				
 1 3 4				

Inductive full-metal sensor

IFK3006-BPKG/AM/P/US

Connection



Diagrams and graphs

Installation

