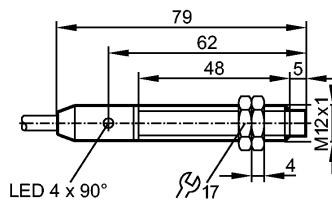




IFKC007-ASKG/M/V4A/0.4M/PH/AS

Inductive sensors



CE EC 1935/2004 FDA

Product characteristics

Inductive sensor

Metal thread M12 x 1

Cable

Operation as 3-wire or 2-wire possible

Increased sensing range

Optical setting aid (2 LED)

Sensing range 7 mm; [nf] non-flush mountable

Electrical data

Electrical design	3-wire DC PNP; 2-wire DC PNP/NPN
Operating voltage [V]	10...30 DC
Current consumption [mA]	12 (24 V)
Protection class	II
Reverse polarity protection	yes

Outputs

Output function	normally open
Voltage drop [V]	< 2.8
Minimum load current [mA]	2; only in 2-wire operation
Leakage current [mA]	< 0.5; only in 2-wire operation
Current rating [mA]	100
Short-circuit protection	pulsed
Overload protection	yes
Switching frequency [Hz]	700

Range

Sensing range [mm]	7
Real sensing range (Sr) [mm]	7 ± 10 %
Operating distance [mm]	0...5.7

Accuracy / deviations

Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.4 / Al approx. 0.4 / Cu approx. 0.3
Hysteresis [% of Sr]	3...15
Switch-point drift [% of Sr]	-10...10

Environment

Ambient temperature [°C]	0...100
Protection	IP 68 / IP 69K; "COP"

Tests / approvals

EMC	EN 61000-4-2 ESD: EN 61000-4-3 HF radiated: EN 61000-4-4 Burst: EN 61000-4-5 Surge: EN 61000-4-6 HF conducted: EN 55011:	4 kV CD / 8 kV AD 10 V/m 2 kV 0.5 kV (line to line, Ri: 20Ω) 10 V class B
MTTF [Years]	1287	

Mechanical data

Mounting	non-flush mountable
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# IFT242 - Inductive sensor - eclass: 27270101 / 27-27-01-01

Housing materials	housing: stainless steel (316L); active face: PEEK (polyether ether ketone)	
Weight [kg]	0.074	
Displays / operating elements		
Output status indication	LED yellow (4 x 90°)	
Setting aid	LED Red	
Electrical connection		
Connection	PUR cable / 0.4 m; 3 x 0.34 mm <sup>2</sup> ; Ø 4.9 mm; with M8 connector (snap-fit)	
<b>Wiring</b>		
2		
1 3		
		
Accessories		
Accessories (included)	2 lock nuts	
Remarks		
Pack quantity	[piece]	1

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