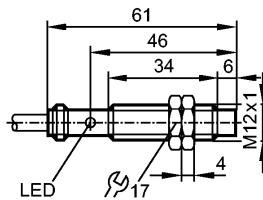


IF7107

IFK3004-ANKG/I/2M

Inductive sensors



Product characteristics

Inductive sensor

Metal thread M12 x 1

Cable

Sensing range 4 mm; [nf] non-flush mountable

Electrical data

Electrical design	DC NPN
Operating voltage [V]	15..30 DC
Current consumption [mA]	< 15
Protection class	III
Reverse polarity protection	yes

Outputs

Output function	normally open
Voltage drop [V]	< 2.5
Current rating [mA]	100
Short-circuit protection	yes (non-latching)
Overload protection	yes
Switching frequency [Hz]	800

Monitoring range

Sensing range [mm]	4
Real sensing range (Sr) [mm]	4 ± 10 %
Operating distance [mm]	0...3.25

Accuracy / deviations

Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.4 / aluminium approx. 0.4 / copper approx. 0.3
Hysteresis [% of Sr]	1...20
Switch-point drift [% of Sr]	-10...10

Environment

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 61000-4-6 HF conducted: 3 V EN 55011: class B
MTTF [Years]	1283

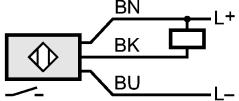
Mechanical data

Mounting	non-flush mountable
----------	---------------------

IF7107

IFK3004-ANKG/I/2M

Inductive sensors

Housing materials	housing: brass nickel-plated; active face: PBT; lock nuts: brass			
Weight	[kg]	0.092		
Displays / operating elements				
Output status indication	LED	yellow		
Electrical connection				
Connection	PVC cable / 2 m; 3 x 0.34 mm ² ; Ø 4.9 mm			
Wiring				
Core colors				
BK	black			
BN	brown			
BU	blue			
				
Accessories				
Accessories (included)	2 lock nuts			
Remarks				
Pack quantity	[piece]	1		

ifm efector, inc. • 1100 Atwater Drive • Malvern • PA 19355 — We reserve the right to make technical alterations without prior notice. — US — IF7107 — 13.09.2013