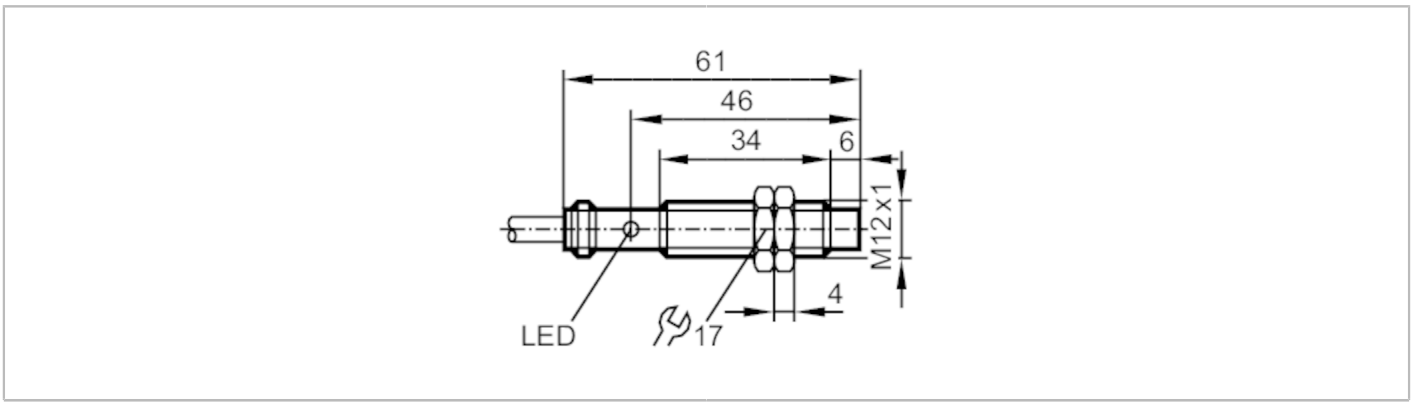
IF7105

Inductive sensor

IFK3004-BPKG/2M/PUR



Product characteristics		
Electrical design		PNP
Output function		normally open
Sensing range	[mm]	4
Housing		threaded type
Dimensions	[mm]	M12 x 1 / L = 61
Electrical data		
Operating voltage	[V]	15...30 DC
Current consumption	[mA]	< 15
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]	800
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...3.25
Accuracy / deviations		
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.4 / copper: 0.3
Hysteresis	[% of Sr]	1...20
Switch point drift	[% of Sr]	-10...10

IF7105

Inductive sensor

IFK3004-BPKG/2M/PUR

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 61000-4-6 HF conducted	3 V
		EN 55011	class B
MTTF	[years]	1710	
UL approval		Ta	-25...70 °C
		Enclosure type	Type 1
		power supply	Limited Voltage/Current
		UL Approval no.	A002
		File number UL	E174191
Mechanical data			
Weight	[g]	94.1	
Housing		threaded type	
Mounting		non-flush mountable	
Dimensions	[mm]	M12 x 1 / L = 61	
Thread designation		M12 x 1	
Materials		housing: brass nickel-plated; sensing face: PBT; lock nuts: brass	
Displays / operating elements			
Display		switching status	1 x LED, yellow
Accessories			
Items supplied		lock nuts: 2	
Remarks			
Pack quantity		1 pcs.	

IF7105

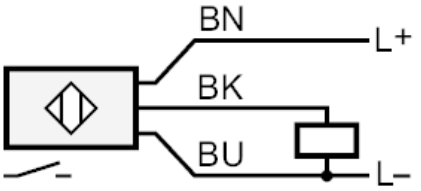
Inductive sensor

IFK3004-BPKG/2M/PUR

Electrical connection

Cable: 2 m, PVC, Ø 4.9 mm; 3 x 0.34 mm²

Connection



	Core colours :
BK =	black
BN =	brown
BU =	blue