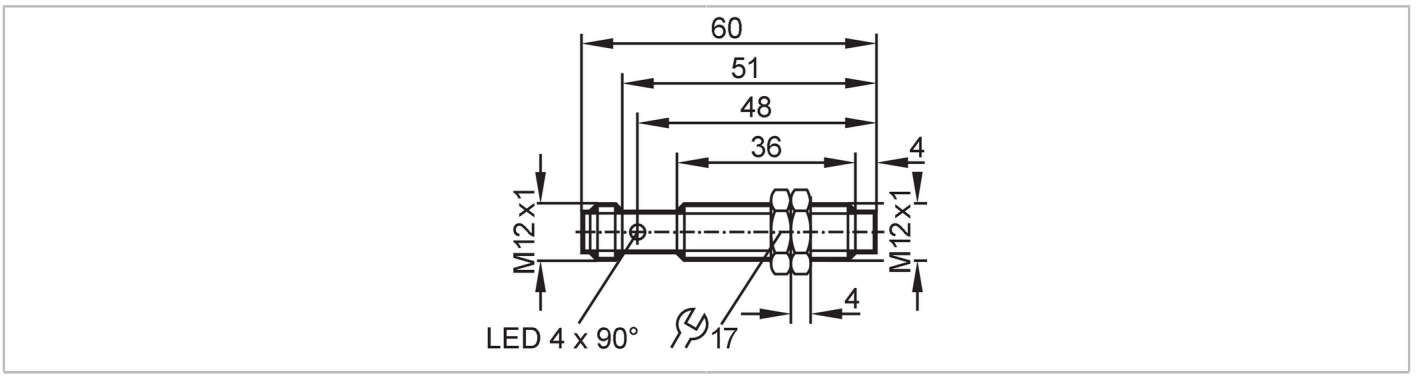
IF5675

Inductive sensor

IFK3004UBPKG/US-104-DPS



Product characteristics		
Electrical design		PNP
Output function		normally open
Sensing range	[mm]	4
Housing		Threaded type
Dimensions	[mm]	M12 x 1 / L = 60
Application		
Special feature		Magnetic-field immune
Application		Inductive sensors for welding applications
Magnetic-field immune		yes
Electrical data		
Operating voltage	[V]	10...36 DC
Current consumption	[mA]	15; (24 V)
Protection class		II
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]	250
Switching frequency DC	[Hz]	1000
Short-circuit protection		yes
Type of short-circuit protection		yes (non-latching)
Overload protection		yes
Monitoring range		
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 / aluminum: 0.3 / copper: 0.2

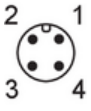
IF5675

Inductive sensor

IFK3004UBPKG/US-104-DPS

Hysteresis	[% of Sr]	1...15	
Switch-point drift	[% of Sr]	-10...10	
Operating conditions			
Ambient temperature	[°C]	-25...70	
Protection		IP 67	
Tests / approvals			
EMC		EN 60947-5-2	
		EN 55011	class B
MTTF	[years]	1906	
UL approval		Ta	0...40 °C
		Enclosure type	Type 1
		File number UL	E174191
Mechanical data			
Weight	[g]	33.9	
Housing		Threaded type	
Mounting		non-flush mountable	
Dimensions	[mm]	M12 x 1 / L = 60	
Thread designation		M12 x 1	
Material		housing: brass white bronze coated; sensing face: PTFE	
Displays / operating elements			
Display		Switching status	1 x LED, yellow
Accessories			
Items supplied		lock nuts: 2	
Remarks			
Pack quantity		1 pcs.	
Electrical connection - plug			

Connector: 1 x M12; coding: A; Contacts: 4



Connection

