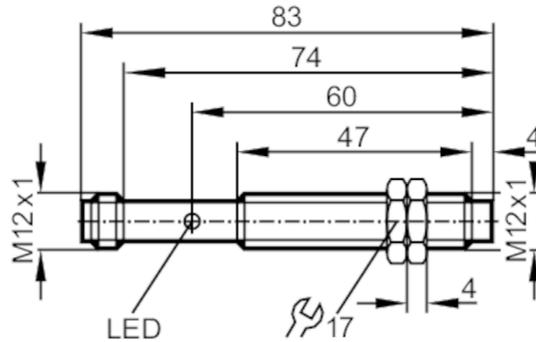


IF5647



Inductive sensor

IFA2004-FRKG/US-100-IRF



Product characteristics

Electrical design	PNP/NPN	
Output function	normally open / normally closed; (selectable)	
Sensing range [mm]	4	
Housing	threaded type	
Dimensions [mm]	M12 x 1 / L = 83	

Electrical data

Operating voltage [V]	10...55 DC	
Protection class	III	
Reverse polarity protection	yes	

Outputs

Electrical design	PNP/NPN	
Output function	normally open / normally closed; (selectable)	
Max. voltage drop switching output DC [V]	4.6	
Minimum load current [mA]	4	
Max. leakage current [mA]	0.5	
Permanent current rating of switching output DC [mA]	300	
Switching frequency DC [Hz]	1500	
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

Hysteresis [% of Sr]	1...15	
Switch point drift [% of Sr]	-10...10	

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Operating conditions		
Ambient temperature	[°C]	-25...80
Protection		IP 67
Tests / approvals		
EMC	EN 60947-5-2	
	EN 55011	class B
MTTF	[years]	1815
UL approval	Ta	0...40 °C
	Enclosure type	Type 1
	File number UL	E174191
Mechanical data		
Weight	[g]	32
Housing		threaded type
Mounting		non-flush mountable
Dimensions	[mm]	M12 x 1 / L = 83
Thread designation		M12 x 1
Materials		brass white bronze coated; sensing face: PC
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

