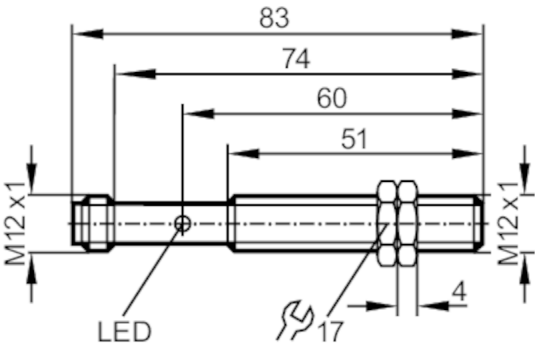


IF5598



Inductive sensor

IFA2002-FRKG/US-100-IRF



Product characteristics

Electrical design	PNP/NPN	
Output function	normally open / closed; (selectable)	
Sensing range	[mm]	2
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 / 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]	1100
Short-circuit protection	yes	
Type of short-circuit protection	yes (non-latching)	
Overload protection	yes	

Monitoring range

Sensing range	[mm]	2
Real sensing range Sr	[mm]	2 ± 10 %
Operating distance	[mm]	0...1.6

Accuracy / deviations

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

IF5598



Inductive sensor

IFA2002-FRKG/US-100-IRF

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]	32.7
Housing		Threaded type
Mounting		flush mountable
Dimensions	[mm]	M12 x 1 / L = 83
Thread designation		M12 x 1
Material		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

