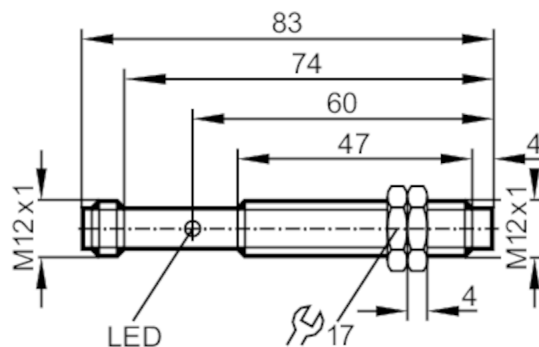


IF5760



Inductive sensor

IFA2004-FRKG/V4A/US-100-IRF RT



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

Application

Special feature	Gold-plated contacts
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Electrical data

Operating voltage [V]	10...55 DC
Protection class	II
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 S_r [mm]	$4 \pm 10 \%$
Operating distance [mm]	0...3.25

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Accuracy / deviations			
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2	
Hysteresis	[% of Sr]	1...15	
Switch point drift	[% of Sr]	-10...10	
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
		voltage supply	Hazardous voltage
		File number UL	E174191
Mechanical data			
Weight		[g]	34.2
Housing		threaded type	
Mounting		non-flush mountable	
Dimensions		[mm]	M12 x 1 / L = 83
Thread designation		M12 x 1	
Materials		stainless steel (1.4571/316Ti); sensing face: PBT	
Displays / operating elements			
Display		switching status	1 x LED, red
Accessories			
Accessories (supplied)		lock nuts: 2	
Remarks			
Pack quantity		1 pcs.	
Electrical connection - plug			
Connector: 1 x M12; Contacts: gold-plated			
			

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