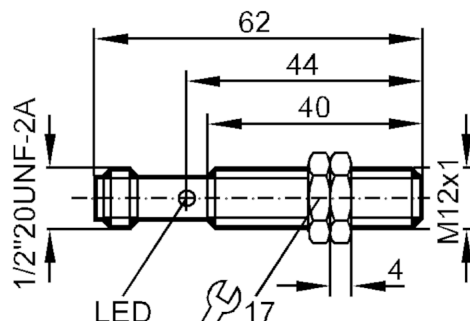




Inductive sensor

IFK2004BAROA/SL/LS-100AK RT



Product characteristics

Output function	normally open
Sensing range [mm]	4
Housing	Threaded type
Dimensions [mm]	M12 x 1

Application

System	Increased sensing range
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Electrical data

Frequency AC [Hz]	47...63
Operating voltage [V]	20...140 AC / 10...140 DC
Protection class	I
Reverse polarity protection	no

Outputs

Output function	normally open
Max. voltage drop switching output DC [V]	5
Max. voltage drop switching output AC [V]	5
Minimum load current [mA]	5
Max. leakage current [mA]	0.8
Permanent current rating of switching output AC [mA]	200
Permanent current rating of switching output DC [mA]	200
Short-time current rating of switching output [mA]	900; (20 ms / 0,5 Hz)
Switching frequency AC [Hz]	25
Switching frequency DC [Hz]	200
Short-circuit proof	no
Overload protection	no

Monitoring range

Sensing range [mm]	4
Operating distance [mm]	0...3.25
Increased sensing range	yes

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Inductive sensor

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Accuracy / deviations			
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2	
Hysteresis	[% of Sr]	3...15	
Operating conditions			
Ambient temperature		[°C]	-25...70
Protection			IP 67
Tests / approvals			
EMC		EN 60947-5-2	
		EN 55011	class B
MTTF	[years]	999	
UL approval		Ta	0...40 °C
		Enclosure type	Type 1
		voltage supply	Hazardous voltage
		File number UL	E174191
Mechanical data			
Weight	[g]	31.2	
Housing		Threaded type	
Mounting		flush mountable	
Dimensions	[mm]	M12 x 1	
Thread designation		M12 x 1	
Material		brass white bronze coated; PBT	
Displays / operating elements			
Display	Switching status	1 x LED, red	
Electrical connection			
Required protection		miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting	
Accessories			
Items supplied		lock nuts: 2	
Remarks			
Remarks		Recommendation: check the unit for reliable function after a short circuit.	
Pack quantity		1 pcs.	
Electrical connection - plug			
Connector: 1 x 1/2"; coding: C			
			

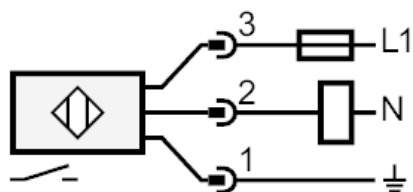
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Inductive sensor

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Connection



Note miniature fuse to IEC60127-2 sheet 1 ≤ 2 A fast acting