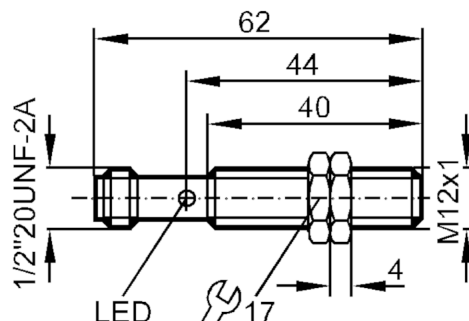




Inductive sensor

IFK2004BAROA/SL/LS-100AK RT



Product characteristics

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

Application

Special feature	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

Detection zone

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



Inductive sensor

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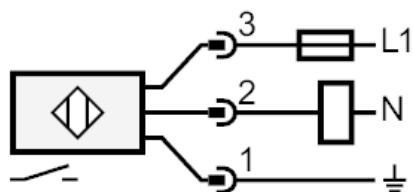
Accuracy / deviations		
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2
Hysteresis	[% of Sr]	3...15
Operating conditions		
Ambient temperature		[°C] -25...70
Protection		IP 67
Tests / approvals		
EMC	EN 60947-5-2	
	EN 55011	class B
MTTF	[years]	999
UL approval	Ta	0...40 °C
	Enclosure type	Type 1
	power 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
Materials		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 safe functioning of the unit after a short circuit.	
Pack quantity	1 pcs.	
Electrical connection - plug		
Connector: 1 x 1/2"; coding: C		
		



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Connection



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