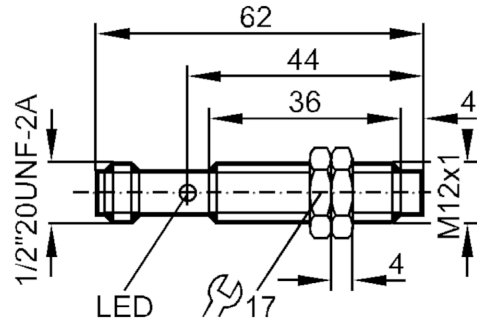


IF0312



Inductive sensor

IFK2007-AROA/SL/LS-100AK RT



Product characteristics

Output function		normally open
Sensing range	[mm]	7
Housing		Threaded type
Dimensions	[mm]	M12 x 1 / L = 62

Application

Special feature	Increased sensing range
-----------------	-------------------------

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]	90
Short-circuit proof		no
Overload protection		no

Monitoring range

Sensing range	[mm]	7
Operating distance	[mm]	0...5.7
Increased sensing range		yes

IF0312



Inductive sensor

IFK2007-AROA/SL/LS-100AK RT

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]	1684
UL approval	Ta	0...40 °C
	Enclosure type	Type 1
	File number UL	E174191
Mechanical data		
Weight	[g]	30.1
Housing		Threaded type
Mounting		non-flush mountable
Dimensions	[mm]	M12 x 1 / L = 62
Thread designation		M12 x 1
Material		sensing face: PBT; housing: brass white bronze coated
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		
		

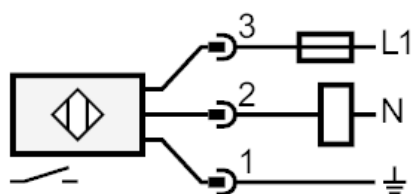
IF0312



Inductive sensor

IFK2007-AROA/SL/LS-100AK RT

Connection



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