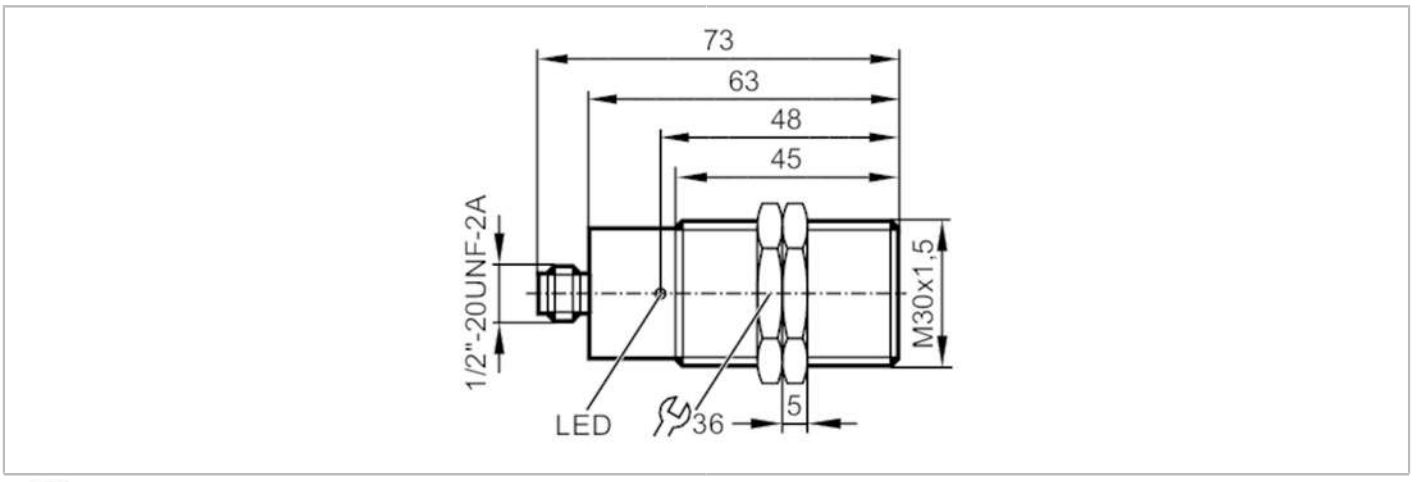
II0359

Inductive sensor

IIA2015RARKA/SL/LS-100AK



Product characteristics		
Electrical design		series connection possible
Output function		normally open
Sensing range	[mm]	15
Housing		threaded type
Dimensions	[mm]	M30 x 1.5
Electrical data		
Frequency AC	[Hz]	47...63
Operating voltage	[V]	20...250 AC/DC
Protection class		I
Reverse polarity protection		yes
Outputs		
Electrical design		series connection possible
Output function		normally open
Max. voltage drop switching output DC	[V]	5.5
Max. voltage drop switching output AC	[V]	5.5
Minimum load current	[mA]	4
Max. leakage current	[mA]	4
Permanent current rating of switching output AC	[mA]	100
Permanent current rating of switching output DC	[mA]	100
Short-time current rating of switching output	[mA]	900; (20 ms / 0,5 Hz)
Switching frequency AC	[Hz]	25
Switching frequency DC	[Hz]	25
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes

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Detection zone			
Sensing range	[mm]	15	
Operating distance	[mm]	0...12.1	
Accuracy / deviations			
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3	
Hysteresis	[% of Sr]	1...15	
Operating conditions			
Ambient temperature	[°C]	-25...70	
Protection		IP 67	
Tests / approvals			
EMC		EN 60947-5-2	
MTTF	[years]	398	
Mechanical data			
Weight	[g]	179.5	
Housing		threaded type	
Mounting		flush mountable	
Dimensions	[mm]	M30 x 1.5	
Thread designation		M30 x 1.5	
Materials		brass white bronze coated; PBT	
Displays / operating elements			
Display		switching status	1 x LED, yellow
Accessories			
Items supplied		lock nuts: 2	
Remarks			
Pack quantity		1 pcs.	

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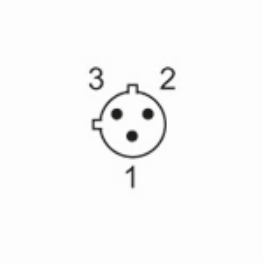
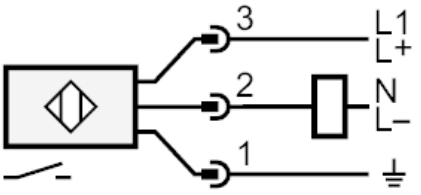
Electrical connection - plug

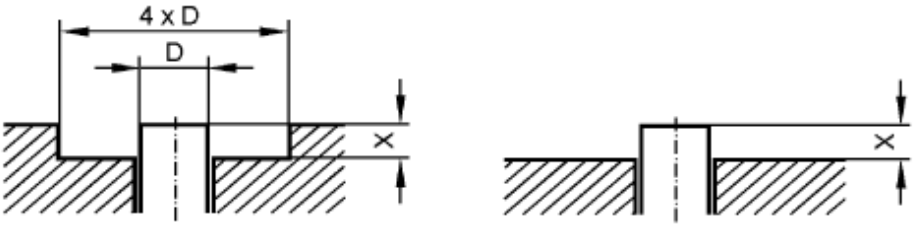
Connector: 1 x 1/2"; coding: C





Diagrams and graphs

Installation



steel X ≥ 3 mm non-ferrous metal and stainless steel X = 0