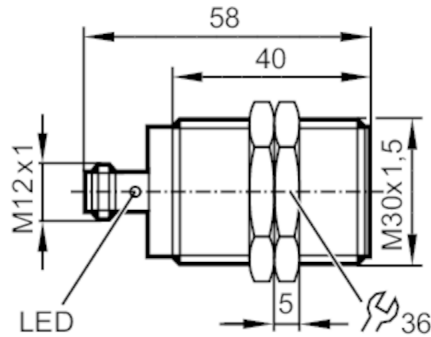


I10366



Inductive sensor

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Electrical data

Operating voltage	[V]	20...140 AC/DC
Protection class		II
Reverse polarity protection		yes

Outputs

Output function		normally open
Max. voltage drop switching output DC	[V]	6
Max. voltage drop switching output AC	[V]	6.5
Minimum load current	[mA]	5
Max. leakage current	[mA]	1
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]	1200; (20ms / 0,5Hz; for UL application: \hat{i} : 0,9 A (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

Detection zone

Sensing range	[mm]	15
Operating distance	[mm]	0...12.1

Accuracy / deviations

Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2
Hysteresis	[% of Sr]	1...20

Operating conditions

Ambient temperature	[°C]	-25...70
Protection		IP 67

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Tests / approvals		
EMC	EN 61000-4-2 ESD	4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated	10 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-5 Surge	1 kV line to line, Ri: 2 Ohm
	EN 61000-4-6 HF conducted	10 V
	EN 55011	class B
MTTF	[years]	398
UL approval	Ta	-25...70 °C
	Enclosure type	Type 1
	voltage supply	Unlimited Voltage
	File number UL	E174191

Mechanical data		
Weight	[g]	136.2
Housing		threaded type
Mounting		flush mountable
Dimensions	[mm]	M30 x 1.5 / L = 58
Thread designation		M30 x 1.5
Materials		housing: brass white bronze coated; sensing face: PBT

Displays / operating elements		
Display	switching status	4 x 90° 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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