IM5015

Inductive sensor

IME2015BFROG

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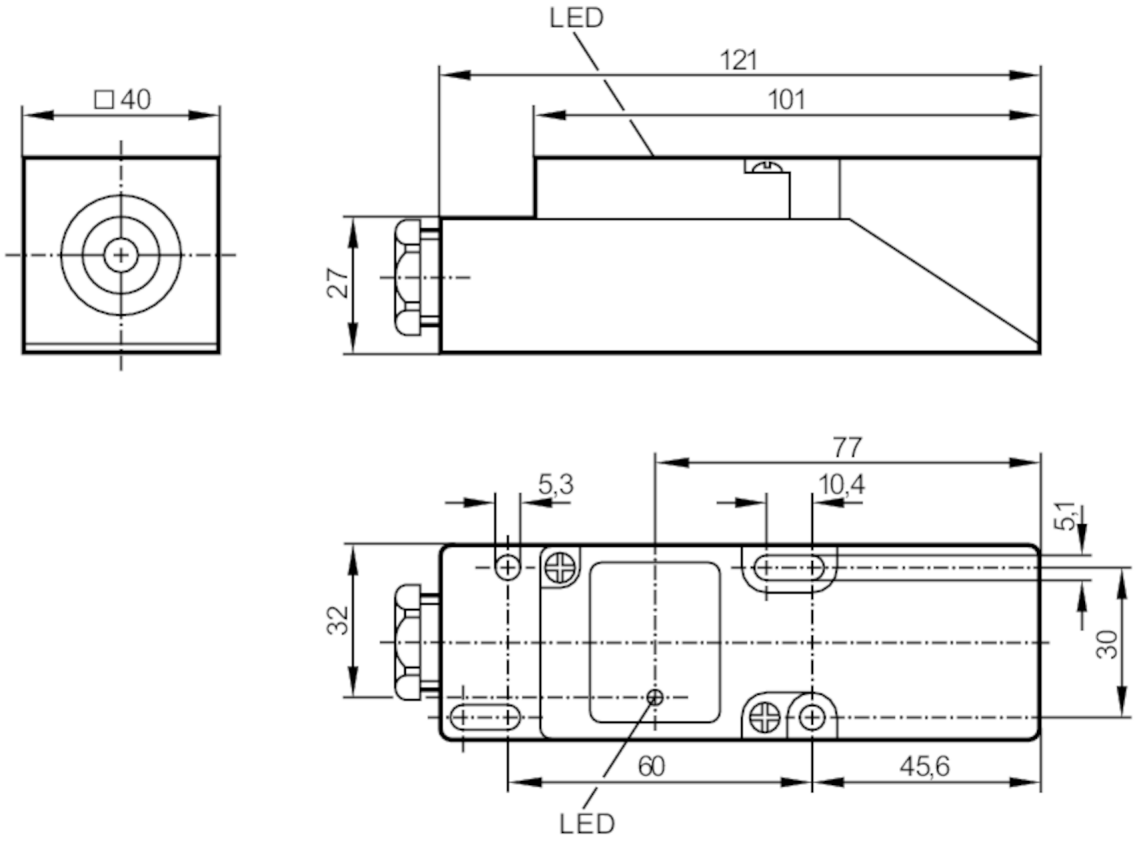

CE

Product characteristics		
Electrical design		PNP/NPN
Output function		normally open / normally closed; (selectable)
Sensing range	[mm]	15
Housing		rectangular
Dimensions	[mm]	40 x 40 x 120
Electrical data		
Operating voltage	[V]	8...30 DC
Protection class		II
Reverse polarity protection		no
Outputs		
Electrical design		PNP/NPN
Output function		normally open / normally closed; (selectable)
Max. voltage drop switching output DC	[V]	5.5

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Minimum load current	[mA]	5
Max. leakage current	[mA]	1.4 (24 V DC)
Permanent current rating of switching output DC	[mA]	200
Switching frequency DC	[Hz]	18
Short-circuit protection		no
Overload protection		no

Detection zone

Sensing range	[mm]	15
Real sensing range Sr	[mm]	15 ± 10 %
Operating distance	[mm]	0...12.1

Accuracy / deviations

Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.4 / copper: 0.3
Hysteresis	[% of Sr]	1...15
Switch point drift	[% of Sr]	-10...10

Operating conditions

Ambient temperature	[°C]	-25...80
Protection		IP 65

Mechanical data

Housing		rectangular
Mounting		flush mountable
Dimensions	[mm]	40 x 40 x 120
Materials		PPE modified

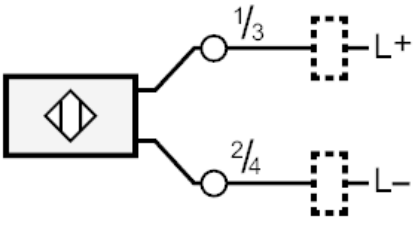
Displays / operating elements

Display	switching status	1 x LED, yellow

Remarks

Pack quantity	1 pcs.

Electrical connection

terminals: ...2.5 mm²; Cable sheath: Ø 7...13 mm

Connection