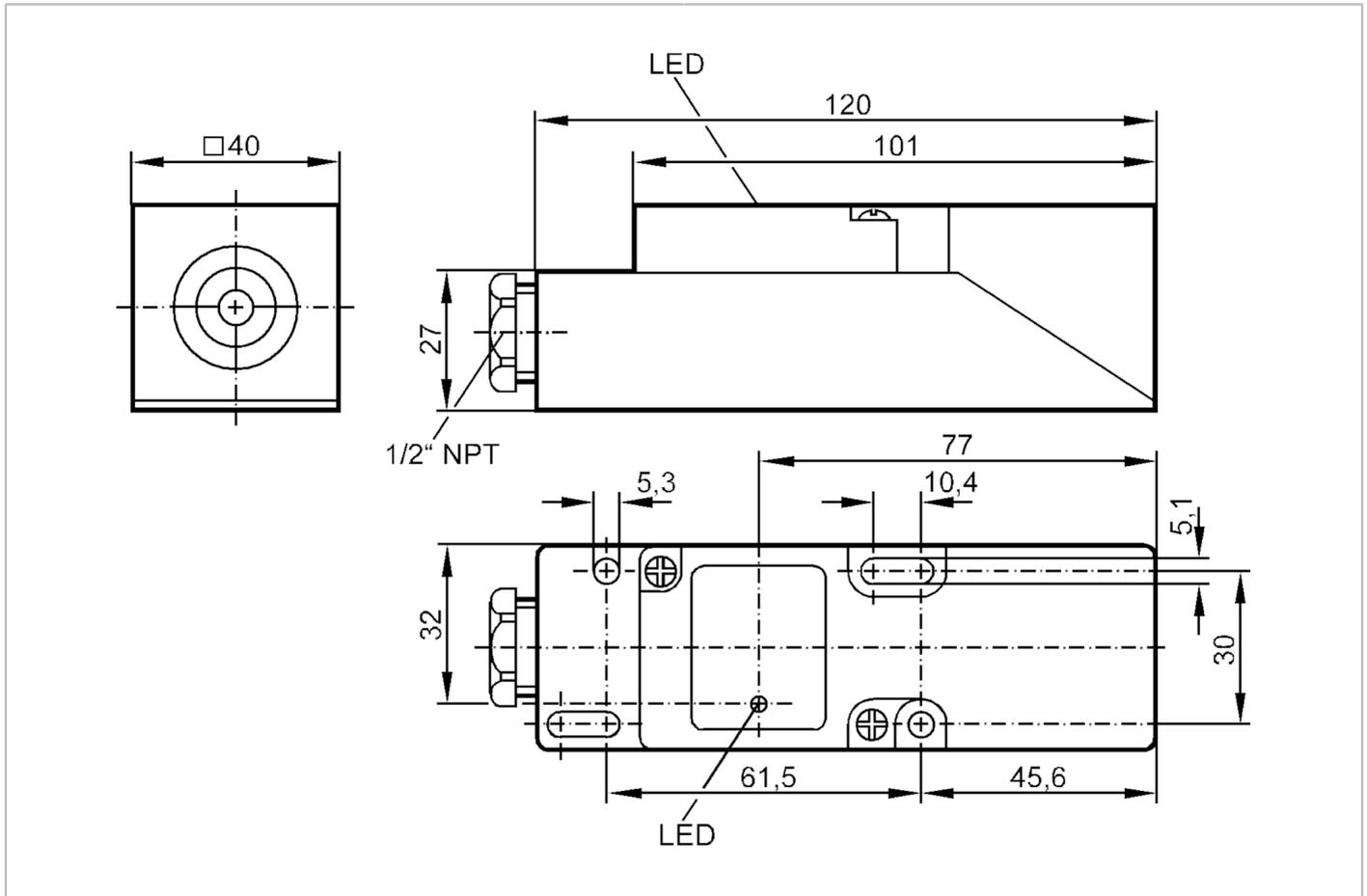


# IM0013



## Inductive sensor

IME2020-FBOA/NPT/RT



Product characteristics	
Output function	normally open / normally closed; (selectable)
Sensing range [mm]	20
Housing	rectangular
Dimensions [mm]	40 x 40 x 120
Electrical data	
Operating voltage [V]	20...250 AC/DC
Protection class	II
Reverse polarity protection	no
Outputs	
Output function	normally open / normally closed; (selectable)
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]	2.5 (250 V AC) / 1.3 (110 V AC) / 0.8 (24 V DC)
Permanent current rating of switching output AC [mA]	250; (350 (...50 °C))

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## Inductive sensor

IME2020-FBOA/NPT/RT

Permanent current rating of switching output DC	[mA]	100
Short-time current rating of switching output	[mA]	2200; (20 ms / 0,5 Hz)
Switching frequency AC	[Hz]	20
Switching frequency DC	[Hz]	55
Short-circuit proof		no
Overload protection		no

### Detection zone

Sensing range	[mm]	20
Real sensing range Sr	[mm]	20 ± 10 %
Operating distance	[mm]	0...16.2

### Accuracy / deviations

Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2
Hysteresis	[% of Sr]	1...15
Switch point drift	[% of Sr]	-10...10

### Operating conditions

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

### Tests / approvals

EMC	EN 60947-5-2	
	EN 55011	class B
MTTF	[years]	604
UL approval	Ta	0...40 °C
	Enclosure type	Type 1
	File number UL	E174191
CSA approval	Ta	-25...60 °C
	Classification	Class I; Div. 2; Groups A, B, C, D; T4
		Class II; Div. 2; Groups F, G; T135 °C
		Class III

### Mechanical data

Weight	[g]	193
Housing		rectangular
Mounting		non-flush mountable
Dimensions	[mm]	40 x 40 x 120
Materials		PPE

### Displays / operating elements

Display	switching status	1 x LED, red
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### Electrical connection

Required protection		miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting
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### Remarks

Remarks		Recommendation: Check the safe functioning of the unit after a short circuit. 5 positions of the active zone possible
Pack quantity		1 pcs.

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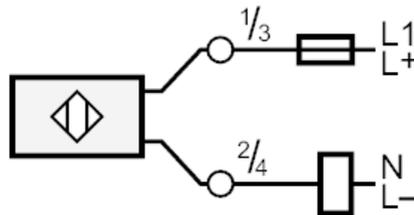
## Inductive sensor

IME2020-FBOA/NPT/RT

### Electrical connection

terminals: ...2.5 mm<sup>2</sup>; Cable sheath: Ø 7...13 mm

### Connection



Note miniature fuse to IEC60127-2 sheet 1  $\leq$  2 A fast acting