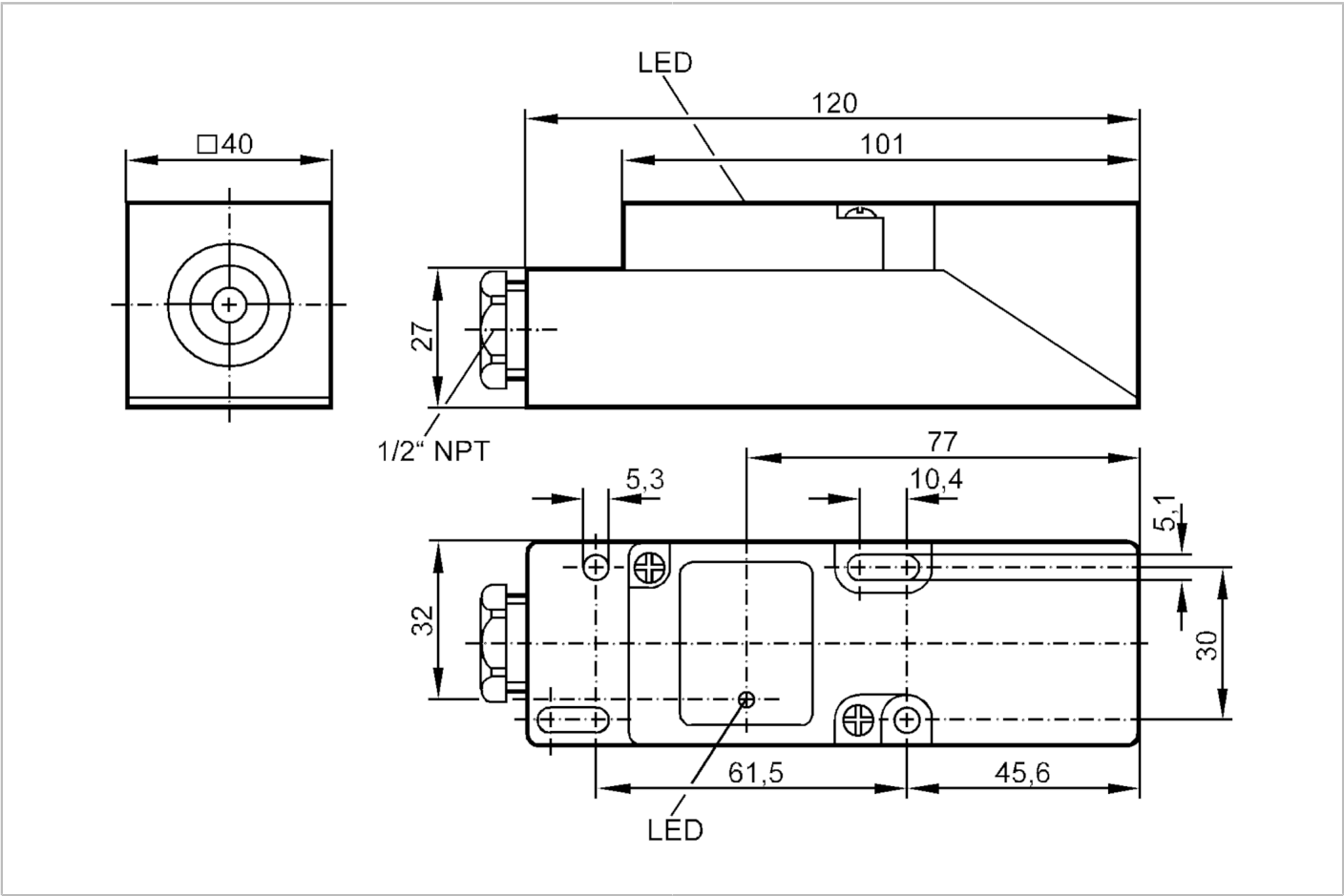


IM0013



Inductive sensor

IME2020-FBOA/NPT/RT



Product characteristics

Output function	normally open / closed; (selectable)
Sensing range [mm]	20
Housing	rectangular

Electrical data

Operating voltage [V]	20...250 AC/DC
Protection class	II
Reverse polarity protection	no



Inductive sensor

IME2020-FBOA/NPT/RT

Outputs		
Output function	normally open / 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))	
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	
Monitoring range		
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 / aluminum: 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
	voltage supply	Hazardous voltage
	File number UL	E174191
Mechanical data		
Weight [g]	193	
Housing	rectangular	
Mounting	non-flush mountable	
Material	PPE	
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	

IM0013



Inductive sensor

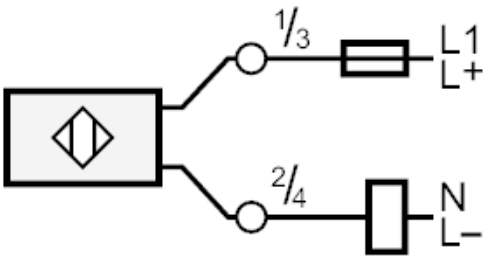
IME2020-FBOA/NPT/RT

Remarks	
Remarks	Recommendation: check the unit for reliable function after a short circuit.
	5 positions of the active zone possible
Pack quantity	1 pcs.

Electrical connection

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

Connection



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