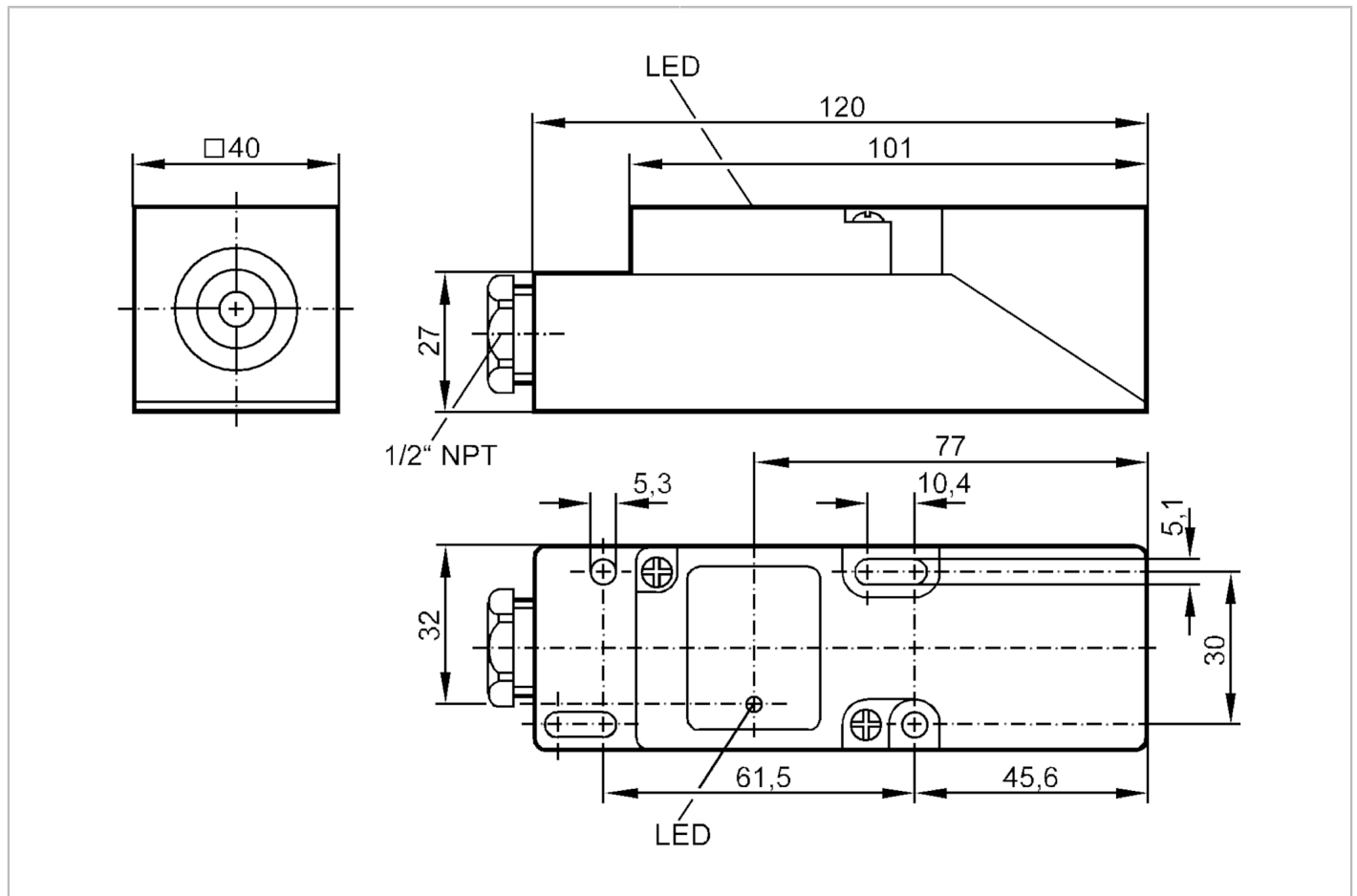


# IM0013



## Inductive sensor

IME2020-FBOA/NPT/RT



### Electrical data

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



## Inductive sensor

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| 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))                                                       |                   |
| 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                                                                | class B           |
|                                                      | EN 55011                                                                    |                   |
| MTTF [years]                                         | 604                                                                         |                   |
| UL approval                                          | Ta                                                                          | 0...40 °C         |
|                                                      | Enclosure type                                                              | Type 1            |
|                                                      | voltage supply                                                              | Unlimited Voltage |
|                                                      | File number UL                                                              | E174191           |
| Mechanical data                                      |                                                                             |                   |
| Weight [g]                                           | 194                                                                         |                   |
| Housing                                              | rectangular                                                                 |                   |
| Mounting                                             | non-flush mountable                                                         |                   |
| Materials                                            | 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 safe functioning of the unit after a short circuit.

5 positions of the active zone possible

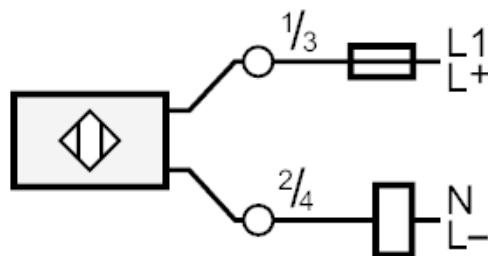
Pack quantity

1 pcs.

### Electrical connection

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

### Connection



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