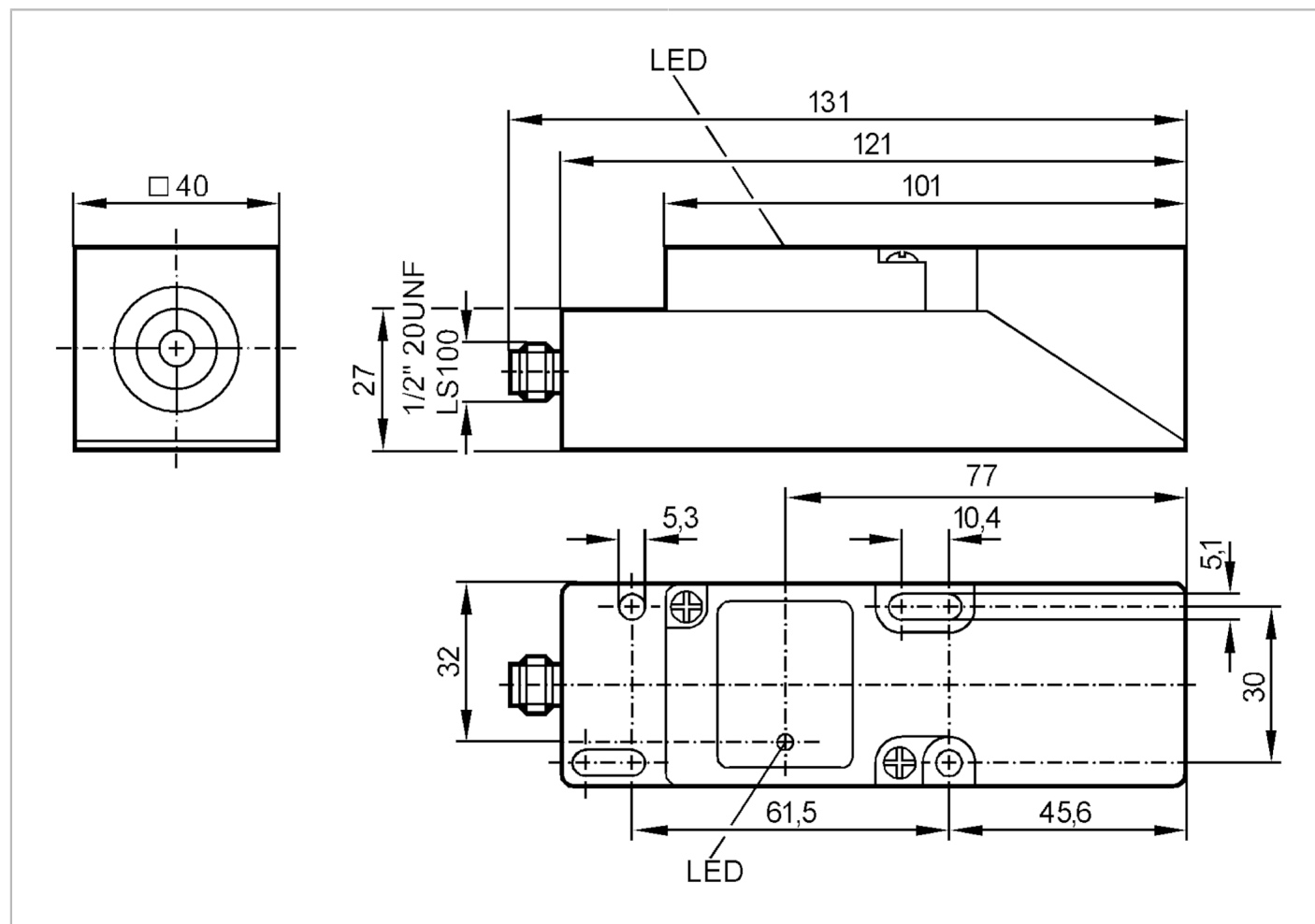




## Inductive sensor

IME2020-FBOA/LS100AK



### Product characteristics

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

### Electrical data

|                             |      |                |
|-----------------------------|------|----------------|
| Frequency AC                | [Hz] | 47...63        |
| 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))                           |
| Permanent current rating of switching output DC | [mA] | 100                                             |

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## Inductive sensor

IME2020-FBOA/LS100AK

|                                               |      |                        |
|-----------------------------------------------|------|------------------------|
| 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 protection                      |      | 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 |

| Mechanical data |     |                     |
|-----------------|-----|---------------------|
| Weight          | [g] | 199.58              |
| Housing         |     | rectangular         |
| Mounting        |     | non-flush mountable |
| Materials       |     | PPE                 |

| Displays / operating elements |                  |              |
|-------------------------------|------------------|--------------|
| Display                       | switching status | 1 x LED, red |

| Remarks       |  |                                         |
|---------------|--|-----------------------------------------|
| Remarks       |  | 5 positions of the active zone possible |
| Pack quantity |  | 1 pcs.                                  |

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IME2020-FBOA/LS100AK

### Electrical connection - plug

Connector: 1 x 1/2"; coding: C

