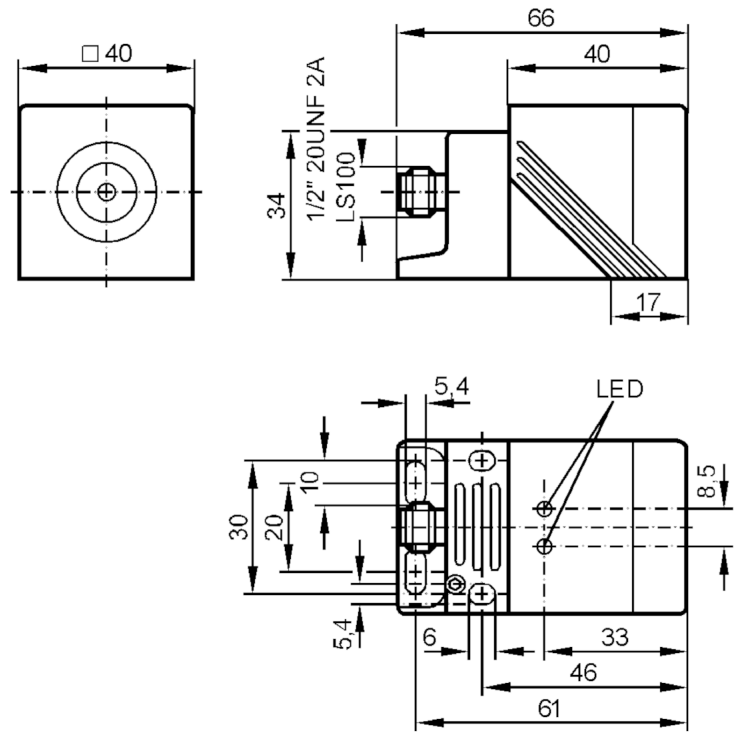




Inductive sensor

IMC2020BARKA/LS-100AK    RT



Product characteristics

|                 |      |               |
|-----------------|------|---------------|
| Output function |      | normally open |
| Sensing range   | [mm] | 20            |
| Housing         |      | rectangular   |
| Dimensions      | [mm] | 40 x 40 x 66  |

Electrical data

|                             |      |                           |
|-----------------------------|------|---------------------------|
| Frequency AC                | [Hz] | 47...63                   |
| Operating voltage           | [V]  | 20...140 AC / 10...140 DC |
| Protection class            |      | I                         |
| Reverse polarity protection |      | yes                       |

Outputs

|                                                 |      |                        |
|-------------------------------------------------|------|------------------------|
| Output function                                 |      | normally open          |
| Max. voltage drop switching output DC           | [V]  | 5.5                    |
| Max. voltage drop switching output AC           | [V]  | 5.5                    |
| Minimum load current                            | [mA] | 5.5                    |
| Max. leakage current                            | [mA] | 1.7 (140 V AC/DC)      |
| Permanent current rating of switching output AC | [mA] | 450                    |
| Permanent current rating of switching output DC | [mA] | 450                    |
| Short-time current rating of switching output   | [mA] | 2200; (20 ms / 0,5 Hz) |



## Inductive sensor

IMC2020BARKA/LS-100AK RT

|                                  |      |        |
|----------------------------------|------|--------|
| Switching frequency AC           | [Hz] | 25     |
| Switching frequency DC           | [Hz] | 100    |
| Short-circuit protection         |      | yes    |
| Type of short-circuit protection |      | pulsed |
| Overload protection              |      | yes    |

| 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: 0.4 / copper: 0.3 |
| Hysteresis            | [% of Sr] | 3...20                                                                      |
| Switch point drift    | [% of Sr] | -10...10                                                                    |

| Operating conditions |      |          |
|----------------------|------|----------|
| Ambient temperature  | [°C] | -25...70 |
| Protection           |      | IP 67    |

| Tests / approvals |                |                   |
|-------------------|----------------|-------------------|
| EMC               |                | EN 60947-5-2      |
| MTTF              | [years]        | 351               |
| UL approval       | Ta             | 0...40 °C         |
|                   | Enclosure type | Type 1            |
|                   | power supply   | Hazardous voltage |
|                   | File number UL | E174191           |

| Mechanical data |      |                                                                                                                   |
|-----------------|------|-------------------------------------------------------------------------------------------------------------------|
| Weight          | [g]  | 259.5                                                                                                             |
| Housing         |      | rectangular                                                                                                       |
| Mounting        |      | flush mountable                                                                                                   |
| Dimensions      | [mm] | 40 x 40 x 66                                                                                                      |
| Materials       |      | housing: PPE; sensing face: PPE orange; end cap: diecast zinc; clamp: diecast zinc black; screw: steel galvanised |

| Displays / operating elements |                  |                                         |
|-------------------------------|------------------|-----------------------------------------|
| Display                       | switching status | 1 x LED, red                            |
|                               | operation        | 1 x LED, green                          |
|                               | short circuit    | 1 x LED, green/red alternately flashing |

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

# IM0055



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### Electrical connection - plug

Connector: 1 x 1/2"; coding: C; Locking: brass, white bronze coated

