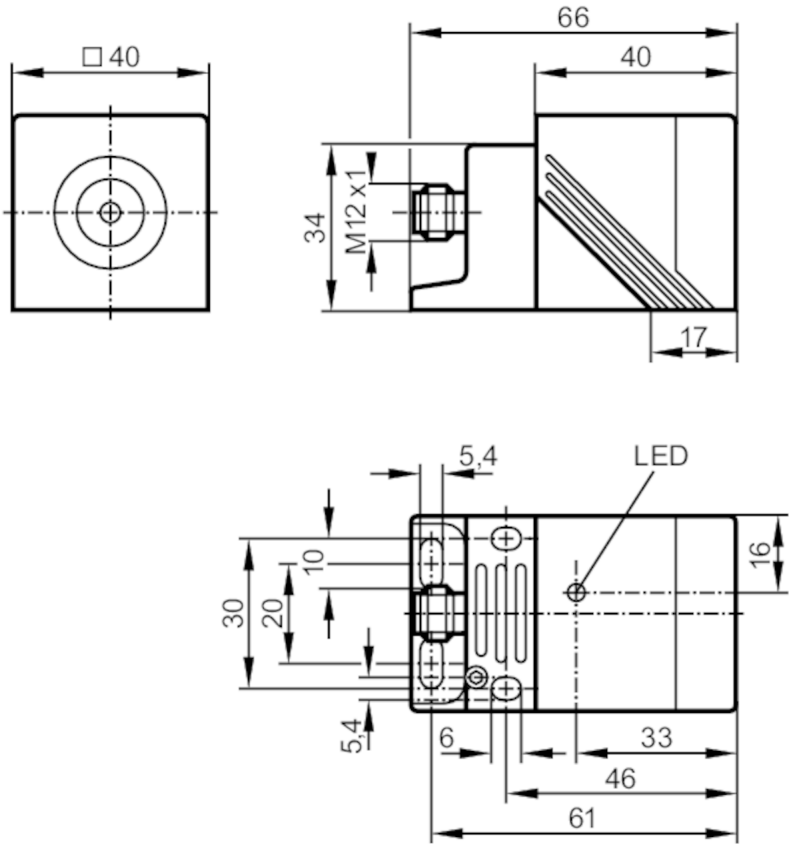




Inductive sensor

IMC2020BABOA/SL/LS-100FK



| Product characteristics               |      |                                                 |
|---------------------------------------|------|-------------------------------------------------|
| Output function                       |      | normally open                                   |
| Sensing range                         | [mm] | 20                                              |
| Housing                               |      | rectangular                                     |
| Dimensions                            | [mm] | 40 x 40 x 66                                    |
| Application                           |      |                                                 |
| Special feature                       |      | Gold-plated contacts                            |
| Electrical data                       |      |                                                 |
| Operating voltage                     | [V]  | 20...250 AC/DC                                  |
| Protection class                      |      | I                                               |
| Reverse polarity protection           |      | no                                              |
| Outputs                               |      |                                                 |
| Output function                       |      | normally open                                   |
| Max. voltage drop switching output DC | [V]  | 6                                               |
| Max. voltage drop switching output AC | [V]  | 6.5                                             |
| Minimum load current                  | [mA] | 1.9                                             |
| Max. leakage current                  | [mA] | 2.5 (250 V AC) / 1.3 (130 V AC) / 0.8 (24 V DC) |



## Inductive sensor

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|                                                 |      |                        |
|-------------------------------------------------|------|------------------------|
| 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] | 25                     |
| Switching frequency DC                          | [Hz] | 70                     |
| 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: 0.9 / brass: 0.4 / aluminium: 0.4 / copper: 0.3 |
| Hysteresis        | [% of Sr] | 3...15                                                                      |

## Operating conditions

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

## Tests / approvals

|      |         |              |         |
|------|---------|--------------|---------|
| EMC  |         | EN 60947-5-2 |         |
|      |         | EN 55011     | class B |
| MTTF | [years] | 599          |         |

## Mechanical data

|            |      |                                                                                                 |
|------------|------|-------------------------------------------------------------------------------------------------|
| Weight     | [g]  | 154.5                                                                                           |
| Housing    |      | rectangular                                                                                     |
| Mounting   |      | flush mountable                                                                                 |
| Dimensions | [mm] | 40 x 40 x 66                                                                                    |
| Materials  |      | housing: PPE; sensing face: PPE orange; end cap: PPS; clamp: PPS black; screw: steel galvanised |

## Displays / operating elements

|         |                  |                 |
|---------|------------------|-----------------|
| Display | switching status | 1 x LED, yellow |
|---------|------------------|-----------------|

## Electrical connection

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

## Remarks

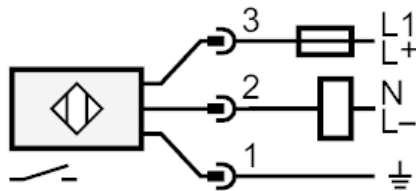
|               |                                                                                                                          |
|---------------|--------------------------------------------------------------------------------------------------------------------------|
| Remarks       | Recommendation: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

## Inductive sensor

IMC2020BABOA/SL/LS-100FK

### Electrical connection - plug

Connector: 1 x M12; coding: C; Locking: brass, white bronze coated; Contacts: gold-plated



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