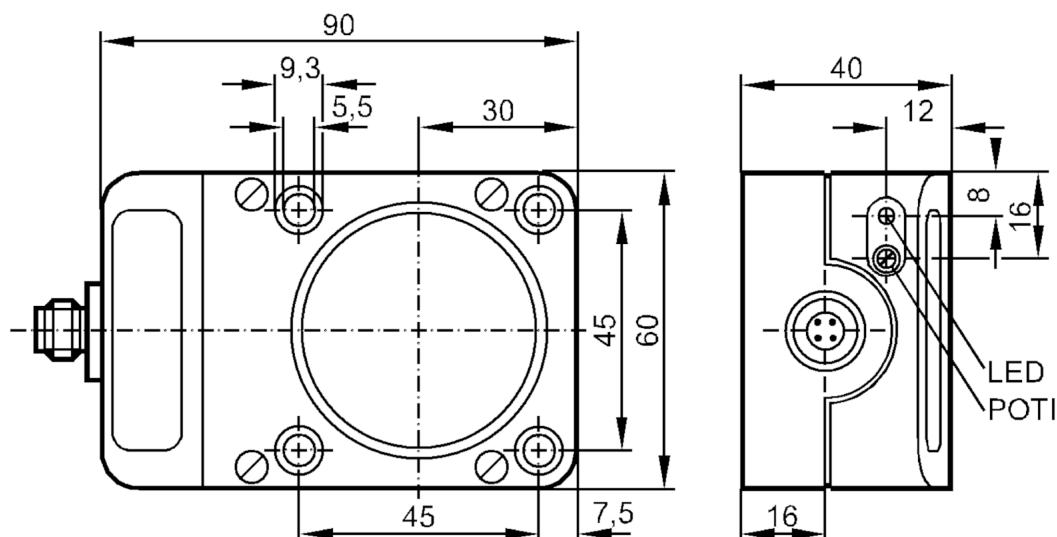




## Inductive sensor

ICE2040-FBOA/LS100AK



### Product characteristics

|                 |      |               |
|-----------------|------|---------------|
| Output function |      | normally open |
| Sensing range   | [mm] | 40            |
| Housing         |      | rectangular   |
| Dimensions      | [mm] | 90 x 60 x 40  |

### Application

|             |                         |
|-------------|-------------------------|
| Application | Industrial applications |
|-------------|-------------------------|

### Electrical data

|                             |     |                |
|-----------------------------|-----|----------------|
| Operating voltage           | [V] | 20...250 AC/DC |
| Protection class            |     | II             |
| 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] | 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] | 10                                              |
| Switching frequency DC                          | [Hz] | 10                                              |
| Short-circuit protection                        |      | no                                              |

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|                     |    |
|---------------------|----|
| Overload protection | no |
|---------------------|----|

### Monitoring range

|                                    |           |
|------------------------------------|-----------|
| Sensing range [mm]                 | 40        |
| Sensing range adjustable           | yes       |
| Factory setting sensing range [mm] | 40        |
| Real sensing range Sr [mm]         | 40 ± 10 % |
| Operating distance [mm]            | 0...32.4  |

### 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 |

### Mechanical data

|                 |                     |
|-----------------|---------------------|
| Weight [g]      | 290.299             |
| Housing         | rectangular         |
| Mounting        | non-flush mountable |
| Dimensions [mm] | 90 x 60 x 40        |
| Material        | PPE                 |

### Displays / operating elements

|         |                  |              |
|---------|------------------|--------------|
| Display | Switching status | 1 x LED, red |
|---------|------------------|--------------|

### Remarks

|               |        |
|---------------|--------|
| Pack quantity | 1 pcs. |
|---------------|--------|

### Electrical connection - plug

Connector: 1 x 1/2"; coding: C; Contacts: 3



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### Connection

