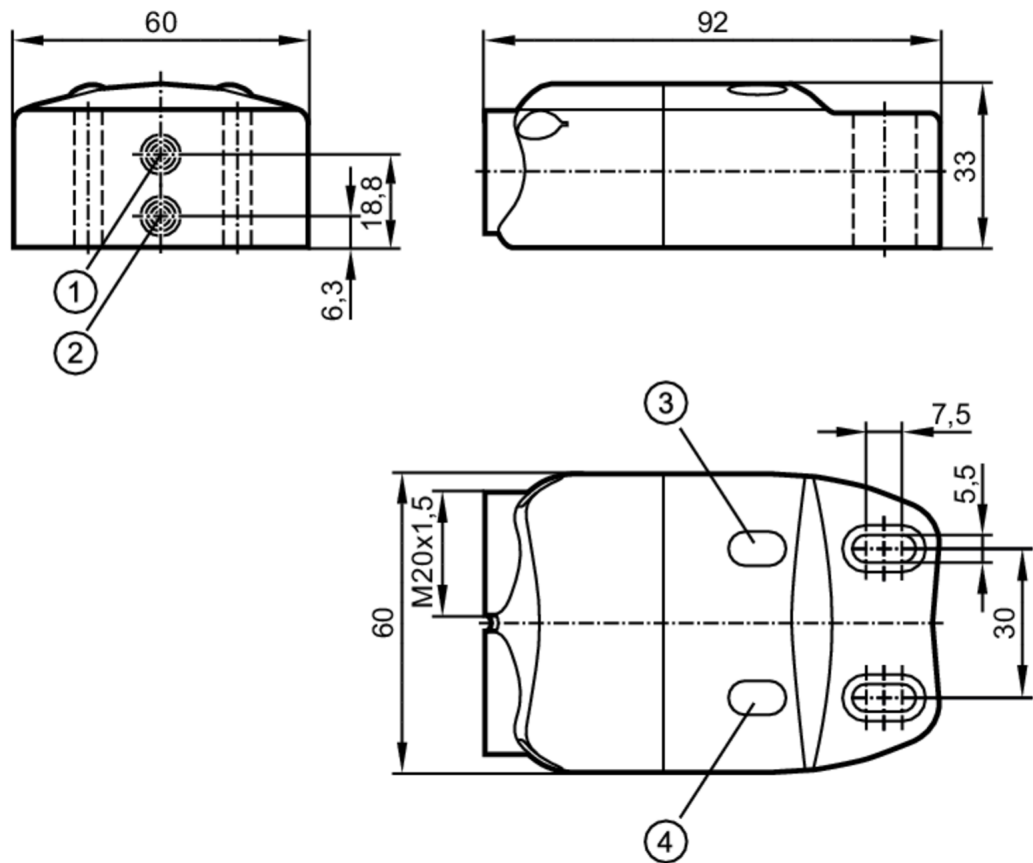


IN0131



Inductive sensor

INE2004DABOA



- 1 sensor 1
- 2 sensor 2
- 3 LED OUT 2
- 4 LED OUT 1



| Product characteristics               |      |                   |
|---------------------------------------|------|-------------------|
| Output function                       |      | 2 x normally open |
| Sensing range                         | [mm] | 4                 |
| Housing                               |      | rectangular       |
| Dimensions                            | [mm] | 33 x 60 x 92      |
| Electrical data                       |      |                   |
| Frequency AC                          | [Hz] | 47...63           |
| Operating voltage                     | [V]  | 20...250 AC/DC    |
| Current consumption                   | [mA] | < 15              |
| Protection class                      |      | II                |
| Reverse polarity protection           |      | yes               |
| Outputs                               |      |                   |
| Output function                       |      | 2 x normally open |
| Max. voltage drop switching output DC | [V]  | 6                 |
| Max. voltage drop switching output AC | [V]  | 6.5               |

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|                                                 |      |                                                 |
|-------------------------------------------------|------|-------------------------------------------------|
| 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] | 25                                              |
| Switching frequency DC                          | [Hz] | 50                                              |
| Short-circuit protection                        |      | no                                              |
| Overload protection                             |      | no                                              |

|                         |      |          |
|-------------------------|------|----------|
| <b>Monitoring range</b> |      |          |
| Sensing range           | [mm] | 4        |
| Real sensing range Sr   | [mm] | 4 ± 10 % |
| Operating distance      | [mm] | 0...3.25 |

|                              |           |                                                                            |
|------------------------------|-----------|----------------------------------------------------------------------------|
| <b>Accuracy / deviations</b> |           |                                                                            |
| Correction factor            |           | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.4 / copper: 0.3 |
| Hysteresis                   | [% of Sr] | 1...15                                                                     |
| Switch-point drift           | [% of Sr] | -10...10                                                                   |

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

|                          |                |                   |
|--------------------------|----------------|-------------------|
| <b>Tests / approvals</b> |                |                   |
| EMC                      |                | EN 60947-5-2      |
| MTTF                     | [years]        | 307               |
| UL approval              | Ta             | -25...70 °C       |
|                          | Enclosure type | Type 1            |
|                          | voltage supply | Hazardous voltage |
|                          | File number UL | E174191           |

|                        |      |                     |
|------------------------|------|---------------------|
| <b>Mechanical data</b> |      |                     |
| Weight                 | [g]  | 174.8               |
| Housing                |      | rectangular         |
| Mounting               |      | non-flush mountable |
| Dimensions             | [mm] | 33 x 60 x 92        |
| Material               |      | housing: PA         |

|                                      |                  |                 |
|--------------------------------------|------------------|-----------------|
| <b>Displays / operating elements</b> |                  |                 |
| Display                              | Switching status | 2 x LED, yellow |

|                              |  |                                                          |
|------------------------------|--|----------------------------------------------------------|
| <b>Electrical connection</b> |  |                                                          |
| Required protection          |  | miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting |

|                    |  |                              |
|--------------------|--|------------------------------|
| <b>Accessories</b> |  |                              |
| Items supplied     |  | washers: 2                   |
|                    |  | cylinder screws: 2 x M5 x 18 |

|                |  |                                                                             |
|----------------|--|-----------------------------------------------------------------------------|
| <b>Remarks</b> |  |                                                                             |
| Remarks        |  | Recommendation: check the unit for reliable function after a short circuit. |

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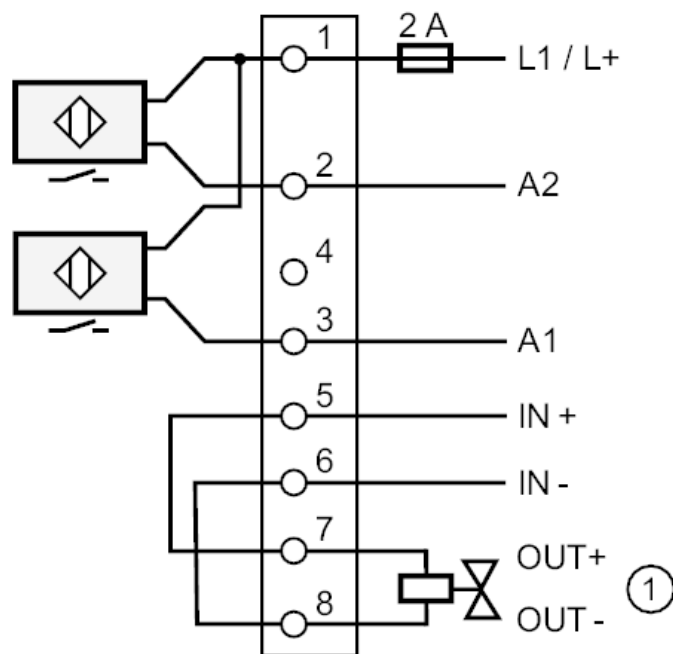
Pack quantity

1 pcs.

### Electrical connection

Terminal strip in the terminal chamber:

#### Connection



1

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