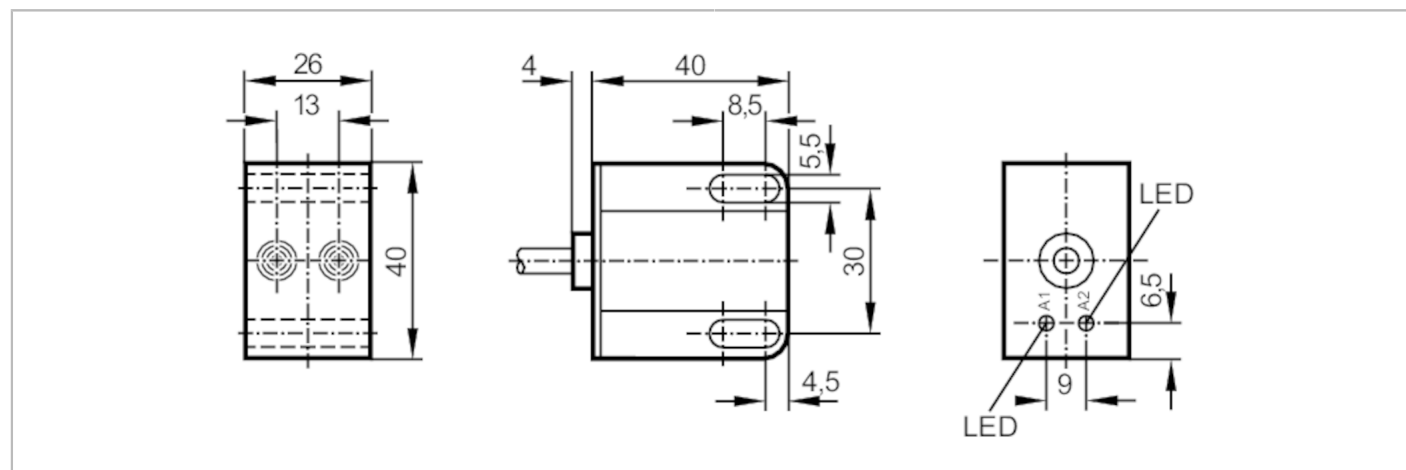


# IN0110



## Inductive dual sensor for valve actuators

IND2004DABOA



### Electrical data

|                             |     |                |
|-----------------------------|-----|----------------|
| Operating voltage           | [V] | 20...250 AC/DC |
| Protection class            |     | II             |
| Reverse polarity protection |     | yes            |

### Outputs

|                                                 |      |                                                 |
|-------------------------------------------------|------|-------------------------------------------------|
| Output function                                 |      | 2 x normally open                               |
| Max. voltage drop switching output DC           | [V]  | 6.5                                             |
| 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] | 25                                              |
| Switching frequency DC                          | [Hz] | 50                                              |
| Short-circuit proof                             |      | no                                              |
| Overload protection                             |      | no                                              |

### Detection zone

|                       |      |          |
|-----------------------|------|----------|
| Sensing range         | [mm] | 4        |
| Real sensing range Sr | [mm] | 4 ± 10 % |
| Operating distance    | [mm] | 0...3.25 |

### 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                                                                    |

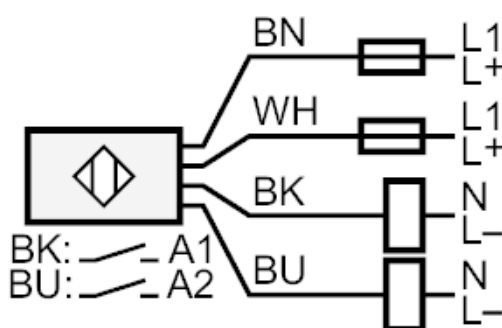
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## Inductive dual sensor for valve actuators

IND2004DABOA

| Operating conditions          |                                                                               |                     |
|-------------------------------|-------------------------------------------------------------------------------|---------------------|
| Ambient temperature           | [°C]                                                                          | -25...80            |
| Protection                    |                                                                               | IP 67               |
| Tests / approvals             |                                                                               |                     |
| EMC                           | EN 60947-5-2                                                                  | class B             |
|                               | EN 55011                                                                      |                     |
| MTTF                          | [years]                                                                       | 303                 |
| Mechanical data               |                                                                               |                     |
| Weight                        | [g]                                                                           | 150                 |
| Housing                       |                                                                               | rectangular         |
| Mounting                      |                                                                               | non-flush mountable |
| Dimensions                    | [mm]                                                                          | 40 x 26 x 40        |
| Materials                     |                                                                               | PBT                 |
| Displays / operating elements |                                                                               |                     |
| Display                       | switching status                                                              | 2 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. |                     |
| Pack quantity                 | 1 pcs.                                                                        |                     |
| Electrical connection         |                                                                               |                     |
| Cable: 2 m, PVC; 4 x 0.34 mm² |                                                                               |                     |
| Connection                    |                                                                               |                     |



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