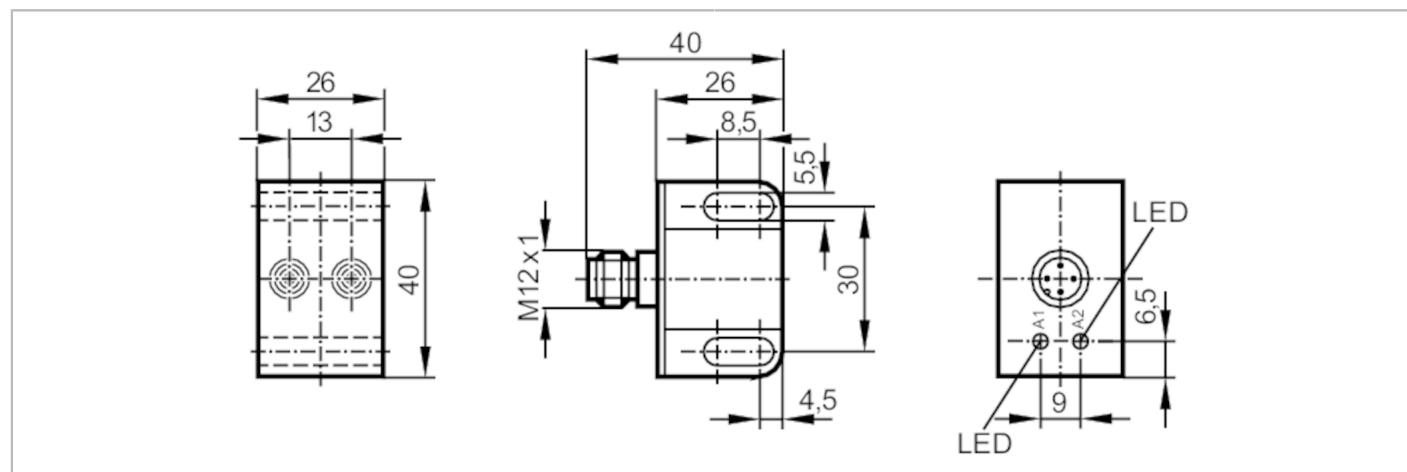


# IN5416



## Inductive dual sensor for valve actuators

IND3004DBPKG/US-100-KPV



### Electrical data

|                             |      |            |
|-----------------------------|------|------------|
| Operating voltage           | [V]  | 10...36 DC |
| Rated insulation voltage    | [V]  | 250        |
| Current consumption         | [mA] | < 15       |
| Protection class            |      | II         |
| Reverse polarity protection |      | yes        |

### Outputs

|                                                 |      |                   |
|-------------------------------------------------|------|-------------------|
| Electrical design                               |      | PNP               |
| Output function                                 |      | 2 x normally open |
| Max. voltage drop switching output DC           | [V]  | 2.5               |
| Max. leakage current                            | [mA] | 0.5               |
| Permanent current rating of switching output DC | [mA] | 250               |
| Short-time current rating of switching output   | [mA] | 250               |
| Switching frequency DC                          | [Hz] | 1000              |
| Short-circuit protection                        |      | yes               |
| Overload protection                             |      | yes               |

### Detection zone

|                             |      |          |
|-----------------------------|------|----------|
| Sensing range               | [mm] | 4        |
| Real sensing range Sr       | [mm] | 4 ± 10 % |
| Safe switching-off distance | [mm] | 0...3.24 |

### 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                                                                    |

### Operating conditions

|                     |      |          |
|---------------------|------|----------|
| Ambient temperature | [°C] | -25...80 |
| Protection          |      | IP 67    |

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### Tests / approvals

EMC EN 60947-5-2

### Mechanical data

|                   |      |                         |
|-------------------|------|-------------------------|
| Weight            | [g]  | 40.1                    |
| Housing           |      | rectangular             |
| Mounting          |      | non-flush mountable     |
| Dimensions        | [mm] | 40 x 26 x 26            |
| Materials         |      | housing: PBT; cover: PC |
| Tightening torque | [Nm] | 0.6...1.5; (Lock nut)   |

### Displays / operating elements

Display switching status 2 x LED, yellow

### Remarks

Pack quantity 1 pcs.

### Electrical connection - plug

Connector: 1 x M12; Contacts: gold-plated



### Connection

