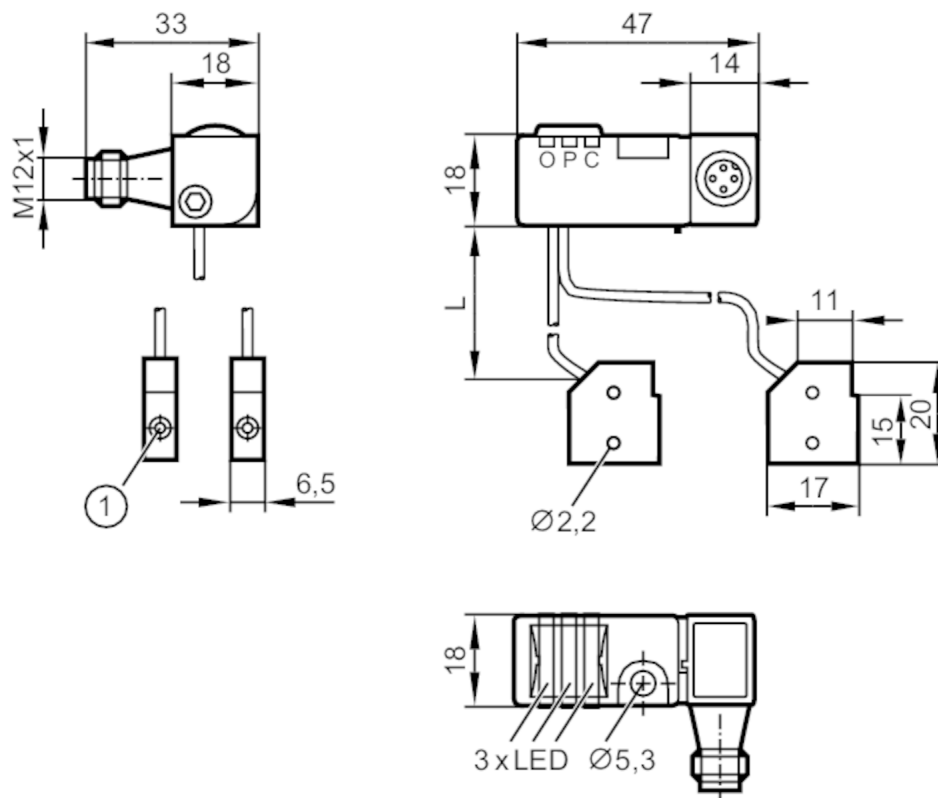




## Inductive sensor

INS3002DBPKG/US-100-YPS/S6A/16



1 Sensing face



### Product characteristics

|                    |                   |
|--------------------|-------------------|
| Electrical design  | PNP               |
| Output function    | 2 x normally open |
| Sensing range [mm] | 2                 |
| Housing            | rectangular       |

### Application

|                       |                       |
|-----------------------|-----------------------|
| Special feature       | Magnetic-field immune |
| Magnetic-field immune | yes                   |

### Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...30 DC |
| Current consumption [mA]    | 15; (24 V) |
| 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                 |

**Inductive sensor**

INS3002DBPKG/US-100-YPS/S6A/16

|                                                 |      |        |
|-------------------------------------------------|------|--------|
| Permanent current rating of switching output DC | [mA] | 200    |
| Switching frequency DC                          | [Hz] | 25     |
| Short-circuit protection                        |      | yes    |
| Type of short-circuit protection                |      | pulsed |
| Overload protection                             |      | yes    |

**Detection zone**

|                       |      |          |
|-----------------------|------|----------|
| Sensing range         | [mm] | 2        |
| Real sensing range Sr | [mm] | 2 ± 10 % |
| Operating distance    | [mm] | 0...1.62 |

**Accuracy / deviations**

|                    |           |                                                                 |
|--------------------|-----------|-----------------------------------------------------------------|
| Correction factor  |           | steel: 1 / stainless steel: 0.85 / aluminium: 0.4 / copper: 0.3 |
| Switch point drift | [% of Sr] | -10...10                                                        |

**Operating conditions**

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

**Tests / approvals**

|     |          |  |
|-----|----------|--|
| EMC | IEC61000 |  |
|-----|----------|--|

**Mechanical data**

|           |      |                     |
|-----------|------|---------------------|
| Weight    | [g]  | 59.5                |
| Housing   |      | rectangular         |
| Mounting  |      | non-flush mountable |
| Materials |      | housing: ABS        |
| Length L  | [mm] | 160                 |

**Displays / operating elements**

|         |                  |                          |
|---------|------------------|--------------------------|
| Display | switching status | 1 x LED, yellow sensor 1 |
|         | switching status | 1 x LED, red sensor 2    |
|         | operation        | LED, green               |

**Remarks**

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

**Electrical connection**

Connector: 1 x M12; coding: A



# IN5375



## Inductive sensor

INS3002DBPKG/US-100-YPS/S6A/16

### Connection

