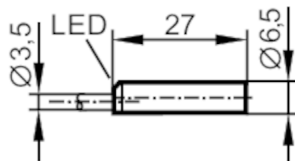




## Inductive sensor

ITB3002BBPKG/V4A/2M



## Product characteristics

|                    |                |
|--------------------|----------------|
| Electrical design  | PNP            |
| Output function    | normally open  |
| Sensing range [mm] | 2              |
| Housing            | tubular        |
| Dimensions [mm]    | Ø 6.5 / L = 27 |

## Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...30 DC |
| Current consumption [mA]    | < 15       |
| Protection class            | III        |
| Reverse polarity protection | yes        |

## Outputs

|                                                      |                    |
|------------------------------------------------------|--------------------|
| Electrical design                                    | PNP                |
| Output function                                      | normally open      |
| Max. voltage drop switching output DC [V]            | 2.5                |
| Permanent current rating of switching output DC [mA] | 100                |
| Switching frequency DC [Hz]                          | 1500               |
| Short-circuit protection                             | yes                |
| Type of short-circuit protection                     | yes (non-latching) |
| Overload protection                                  | yes                |

## Monitoring range

|                               |               |
|-------------------------------|---------------|
| Sensing range [mm]            | 2             |
| Real sensing range $S_r$ [mm] | $2 \pm 10 \%$ |
| Operating distance [mm]       | 0...1.62      |

## Accuracy / deviations

|                          |                                                                            |
|--------------------------|----------------------------------------------------------------------------|
| Correction factor        | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.4 / copper: 0.3 |
| Hysteresis [% of $S_r$ ] | 1...15                                                                     |

## Operating conditions

|                          |          |
|--------------------------|----------|
| Ambient temperature [°C] | -20...70 |
| Protection               | IP 67    |

## Tests / approvals

|              |              |
|--------------|--------------|
| EMC          | EN 60947-5-2 |
| MTTF [years] | 3408         |

IT5042



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|             |                |             |
|-------------|----------------|-------------|
| UL approval | Ta             | -20...70 °C |
|             | Enclosure type | Type 1      |
|             | voltage supply | Class 2     |
|             | File number UL | E174191     |

| Mechanical data |      |                      |
|-----------------|------|----------------------|
| Weight          | [g]  | 44.3                 |
| Housing         |      | tubular              |
| Mounting        |      | flush mountable      |
| Dimensions      | [mm] | Ø 6.5 / L = 27       |
| Material        |      | stainless steel; LCP |

| Displays / operating elements |                  |                 |
|-------------------------------|------------------|-----------------|
| Display                       | Switching status | 1 x LED, yellow |

| Accessories    |                   |
|----------------|-------------------|
| Items supplied | Mounting clamp: 1 |

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

| Electrical connection         |  |
|-------------------------------|--|
| Cable: 2 m, PUR; 3 x 0.14 mm² |  |

Connection

