

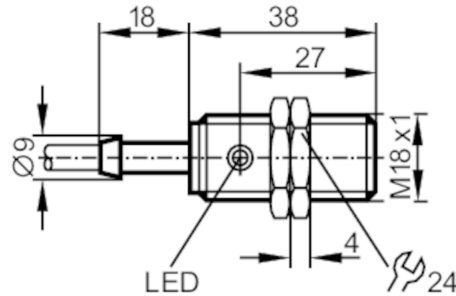
# IG5251



## Inductive sensor

IGB3005-BNOG/ 6m

Article no longer available - archive entry



### Product characteristics

|                    |                  |
|--------------------|------------------|
| Electrical design  | NPN              |
| Output function    | normally closed  |
| Sensing range [mm] | 5                |
| Housing            | threaded type    |
| Dimensions [mm]    | M18 x 1 / L = 38 |

### Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 18...36 DC |
| Current consumption [mA]    | 15; (24 V) |
| Protection class            | II         |
| Reverse polarity protection | no         |

### Outputs

|  |                       |
|--|-----------------------|
| Electrical design                                    | NPN                   |
| Output function                                      | normally closed       |
| Max. voltage drop switching output DC [V]            | 2.5                   |
| Permanent current rating of switching output DC [mA] | 125; (150 (...50 °C)) |
| Switching frequency DC [Hz]                          | 500                   |
| Short-circuit protection                             | no                    |
| Overload protection                                  | no                    |

### Detection zone

|                            |          |
|----------------------------|----------|
| Sensing range [mm]         | 5        |
| Real sensing range Sr [mm] | 5 ± 10 % |
| Operating distance [mm]    | 0...4.05 |

### 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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| Mechanical data    |                          |
|--------------------|--------------------------|
| Housing            | threaded type            |
| Mounting           | flush mountable          |
| Dimensions [mm]    | M18 x 1 / L = 38         |
| Thread designation | M18 x 1                  |
| Materials          | brass nickel-plated; PBT |

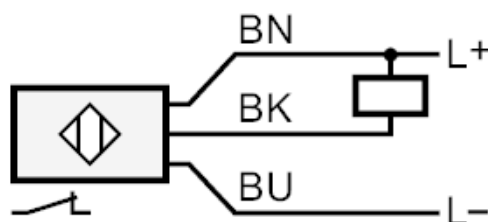
| Displays / operating elements |                  |                 |
|-------------------------------|------------------|-----------------|
| Display                       | switching status | 1 x LED, yellow |

| Accessories            |              |
|------------------------|--------------|
| Accessories (supplied) | lock nuts: 2 |

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

**Electrical connection**  
Cable: 6 m, PVC; 3 x 0.5 mm<sup>2</sup>

### Connection



Core colours :

- BN = brown
- BU = blue
- BK = black

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