

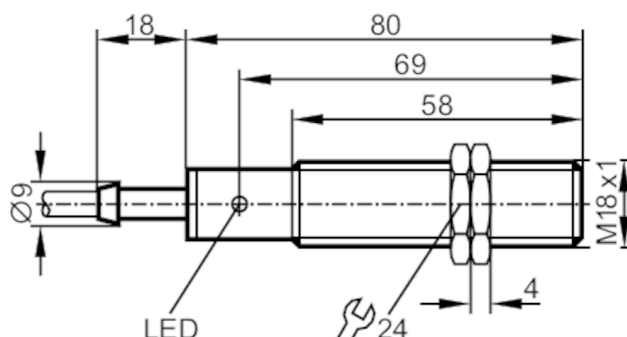
## Inductive sensor

IGA2005-BBOA/PPU

Article no longer available - archive entry

Alternative articles: IG0223

When selecting an alternative article and accessories please note that technical data may differ!



### Product characteristics

|                 |      |                  |
|-----------------|------|------------------|
| Output function |      | normally closed  |
| Sensing range   | [mm] | 5                |
| Housing         |      | threaded type    |
| Dimensions      | [mm] | M18 x 1 / L = 80 |

### Electrical data

|                             |     |                |
|-----------------------------|-----|----------------|
| Operating voltage           | [V] | 20...250 AC/DC |
| Reverse polarity protection |     | no             |

### Outputs

|                                                 |      |                                                 |
|-------------------------------------------------|------|-------------------------------------------------|
| Output function                                 |      | normally closed                                 |
| Max. voltage drop switching output DC           | [V]  | 6                                               |
| Max. voltage drop switching output AC           | [V]  | 6.7                                             |
| Minimum load current                            | [mA] | 4                                               |
| 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 protection                        |      | no                                              |
| Overload protection                             |      | no                                              |

### Detection zone

|                       |      |          |
|-----------------------|------|----------|
| Sensing range         | [mm] | 5        |
| Real sensing range Sr | [mm] | 5 ± 10 % |



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|                    |      |          |
|--------------------|------|----------|
| Operating distance | [mm] | 0...4.05 |
|--------------------|------|----------|

### Accuracy / deviations

|                    |           |          |
|--------------------|-----------|----------|
| Hysteresis         | [% of Sr] | 1...15   |
| Switch point drift | [% of Sr] | -10...10 |

### Operating conditions

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

### Tests / approvals

|     |              |         |
|-----|--------------|---------|
| EMC | EN 60947-5-2 |         |
|     | EN 55011     | class B |

### Mechanical data

|                    |      |                               |
|--------------------|------|-------------------------------|
| Housing            |      | threaded type                 |
| Mounting           |      | flush mountable               |
| Dimensions         | [mm] | M18 x 1 / L = 80              |
| Thread designation |      | M18 x 1                       |
| Materials          |      | brass nickel-plated; ULTRASON |

### Displays / operating elements

|         |                  |              |
|---------|------------------|--------------|
| Display | switching status | 1 x LED, red |
|---------|------------------|--------------|

### Accessories

|                |  |              |
|----------------|--|--------------|
| Items supplied |  | lock nuts: 2 |
|----------------|--|--------------|

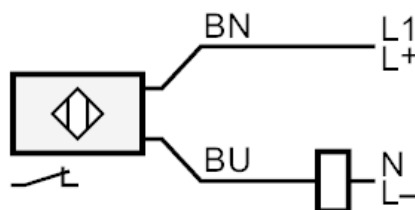
### Remarks

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

### Electrical connection

Cable: 2 m, PUR / PVC; highly flexible; 2 x 0.5 mm<sup>2</sup>

### Connection



BN = Core colours :  
brown  
BU = blue