

# IG5361



## Inductive sensor

IGA3005-ANKG



### Product characteristics

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

### Electrical data

|                             |      |            |
|-----------------------------|------|------------|
| Operating voltage           | [V]  | 10...36 DC |
| Current consumption         | [mA] | 15; (24 V) |
| Protection class            | II   |            |
| Reverse polarity protection | yes  |            |

### Outputs

|                                                 |               |     |
|-------------------------------------------------|---------------|-----|
| Electrical design                               | NPN           |     |
| Output function                                 | normally open |     |
| Max. voltage drop switching output DC           | [V]           | 2.5 |
| Permanent current rating of switching output DC | [mA]          | 250 |
| Switching frequency DC                          | [Hz]          | 500 |
| Short-circuit protection                        | yes           |     |
| Type of short-circuit protection                | pulsed        |     |
| Overload protection                             | yes           |     |

### 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 |

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### Operating conditions

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

### Tests / approvals

|      |              |         |
|------|--------------|---------|
| EMC  | EN 60947-5-2 |         |
|      | EN 55011     | class B |
| MTTF | [years]      | 1781    |

### Mechanical data

|                    |      |                               |
|--------------------|------|-------------------------------|
| Weight             | [g]  | 163.2                         |
| Housing            |      | threaded type                 |
| Mounting           |      | flush mountable               |
| Dimensions         | [mm] | M18 x 1 / L = 80              |
| Thread designation |      | M18 x 1                       |
| Materials          |      | brass white bronze coated; PC |

### Displays / operating elements

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

### Accessories

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

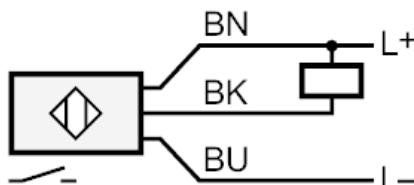
### Remarks

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

### Electrical connection

Cable: 2 m, PVC; 3 x 0.5 mm²

### Connection



|      |                |
|------|----------------|
| BN = | Core colours : |
| BU = | brown          |
| BK = | blue           |
|      | black          |