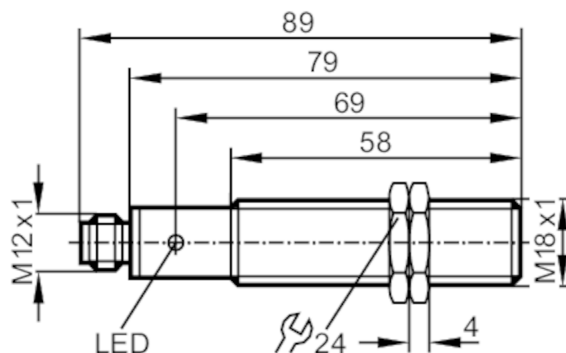


## Inductive sensor

IGA3005-BNKG/US-100-DNO



## Product characteristics

|                   |      |                  |
|-------------------|------|------------------|
| Electrical design |      | NPN              |
| Output function   |      | normally closed  |
| Sensing range     | [mm] | 5                |
| Housing           |      | threaded type    |
| Dimensions        | [mm] | M18 x 1 / L = 89 |

## 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 closed |
| 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         | [X01] | 1...15                                                                      |
| Switch point drift | [X01] | -10...10                                                                    |

# IG5557



## Inductive sensor

IGA3005-BNKG/US-100-DNO

### Operating conditions

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

### Tests / approvals

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

### Mechanical data

|                    |      |                               |
|--------------------|------|-------------------------------|
| Weight             | [g]  | 68.5                          |
| Housing            |      | threaded type                 |
| Mounting           |      | flush mountable               |
| Dimensions         | [mm] | M18 x 1 / L = 89              |
| Thread designation |      | M18 x 1                       |
| Materials          |      | brass white bronze coated; PC |

### Displays / operating elements

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

### Аксессуары

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

### Remarks

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

### Electrical connection - plug

Connector: 1 x M12; coding: A



### Connection

