

# IG5614



## Inductive sensor

IGA2005-FRKG/V4A/6M/PH



### Product characteristics

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

### Electrical data

|                             |     |            |
|-----------------------------|-----|------------|
| Operating voltage           | [V] | 10...55 DC |
| Protection class            |     | II         |
| Reverse polarity protection |     | yes        |

### Outputs

|                                                 |      |                                               |
|-------------------------------------------------|------|-----------------------------------------------|
| Output function                                 |      | normally open / normally closed; (selectable) |
| Max. voltage drop switching output DC           | [V]  | 4.6                                           |
| Minimum load current                            | [mA] | 4                                             |
| Max. leakage current                            | [mA] | 0.8                                           |
| Permanent current rating of switching output DC | [mA] | 400                                           |
| Switching frequency DC                          | [Hz] | 700                                           |
| 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                                                                    |

### Operating conditions

|                     |      |          |
|---------------------|------|----------|
| Ambient temperature | [°C] | -25...80 |
|---------------------|------|----------|

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|            |       |
|------------|-------|
| Protection | IP 67 |
|------------|-------|

### Tests / approvals

|      |              |         |
|------|--------------|---------|
| EMC  | EN 60947-5-2 |         |
|      | EN 55011     | class B |
| MTTF | [ANN]        | 1835    |

### Mechanical data

|                    |      |                                     |
|--------------------|------|-------------------------------------|
| Weight             | [g]  | 319.5                               |
| Housing            |      | threaded type                       |
| Mounting           |      | flush mountable                     |
| Dimensions         | [mm] | M18 x 1 / L = 80                    |
| Thread designation |      | M18 x 1                             |
| Materials          |      | stainless steel (1.4571/316Ti) ; PC |

### Displays / operating elements

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

### Аксессуары

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

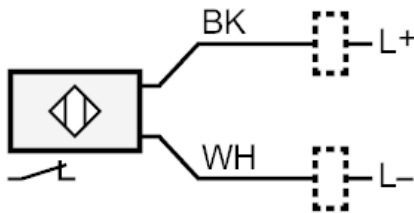
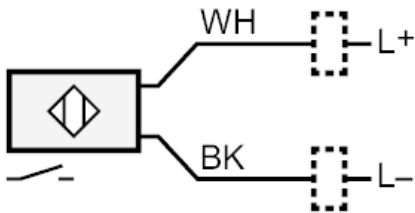
### Remarks

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

### Electrical connection

Cable: 6 m, PUR / PVC; highly flexible; 2 x 0.5 mm<sup>2</sup>

### Connection



BK =  
WH =

Core colours :  
black  
white