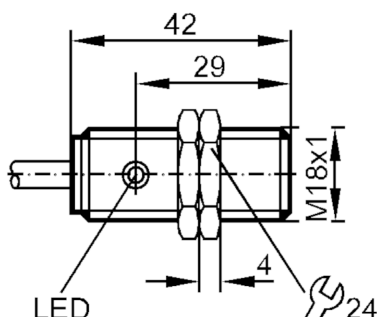


## Inductive sensor

IGB2005-FRKG/PH



## Product characteristics

|                    |                                      |
|--------------------|--------------------------------------|
| Electrical design  | PNP/NPN                              |
| Output function    | normally open / closed; (selectable) |
| Sensing range [mm] | 5                                    |
| Housing            | Threaded type                        |
| Dimensions [mm]    | M18 x 1                              |

## Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...36 DC |
| Protection class            | II         |
| Reverse polarity protection | yes        |

## Outputs

|                                                      |                                      |
|------------------------------------------------------|--------------------------------------|
| Electrical design                                    | PNP/NPN                              |
| Output function                                      | normally open / 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] | 150                                  |
| Switching frequency DC [Hz]                          | 700                                  |
| Short-circuit protection                             | yes                                  |
| Type of short-circuit protection                     | yes (non-latching)                   |
| Overload protection                                  | yes                                  |

## Monitoring range

|                               |               |
|-------------------------------|---------------|
| Sensing range [mm]            | 5             |
| Real sensing range $S_r$ [mm] | $5 \pm 10 \%$ |
| Operating distance [mm]       | 0...4.05      |

## Accuracy / deviations

|                                  |                                                                            |
|----------------------------------|----------------------------------------------------------------------------|
| Correction factor                | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.4 / copper: 0.3 |
| Hysteresis [% of $S_r$ ]         | 3...15                                                                     |
| Switch-point drift [% of $S_r$ ] | -10...10                                                                   |

# IG5728



## Inductive sensor

IGB2005-FRKG/PH

### Operating conditions

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

### Tests / approvals

|      |              |         |
|------|--------------|---------|
| EMC  | EN 60947-5-2 |         |
|      | EN 55011     | class B |
| MTTF | [years]      | 2269    |

### Mechanical data

|                    |      |                         |
|--------------------|------|-------------------------|
| Weight             | [g]  | 125.7                   |
| Housing            |      | Threaded type           |
| Mounting           |      | flush mountable         |
| Dimensions         | [mm] | M18 x 1                 |
| Thread designation |      | M18 x 1                 |
| Material           |      | brass nickel-plated; PC |

### Displays / operating elements

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

### Accessories

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

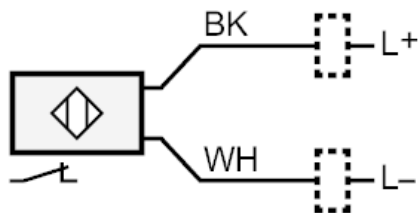
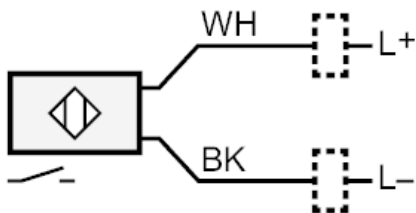
### Remarks

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

### Electrical connection

Cable: 2 m, PUR; 2 x 0.34 mm<sup>2</sup>

### Connection



BK = Core colors :  
black  
WH = white