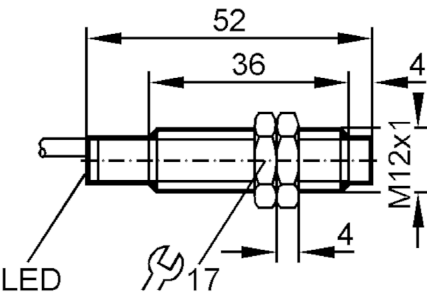


# IF5706



## Inductive sensor

IFK3004-BPOG/4M



| Product characteristics                         |      |               |
|-------------------------------------------------|------|---------------|
| Electrical design                               |      | PNP           |
| Output function                                 |      | normally open |
| Sensing range                                   | [mm] | 4             |
| Housing                                         |      | threaded type |
| Dimensions                                      | [mm] | M12 x 1       |
| Electrical data                                 |      |               |
| Operating voltage                               | [V]  | 10...30 DC    |
| Current consumption                             | [mA] | 15; (24 V)    |
| Protection class                                |      | III           |
| Reverse polarity protection                     |      | no            |
| Outputs                                         |      |               |
| Electrical design                               |      | PNP           |
| Output function                                 |      | normally open |
| Max. voltage drop switching output DC           | [V]  | 1.5           |
| Permanent current rating of switching output DC | [mA] | 200           |
| Switching frequency DC                          | [Hz] | 300           |
| Short-circuit protection                        |      | no            |
| Overload protection                             |      | no            |
| Detection zone                                  |      |               |
| Sensing range                                   | [mm] | 4             |
| Real sensing range Sr                           | [mm] | 4 ± 10 %      |

# IF5706



## Inductive sensor

IFK3004-BPOG/4M

|                    |      |          |
|--------------------|------|----------|
| Operating distance | [mm] | 0...3.25 |
|--------------------|------|----------|

### 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                                                                    |

### Operating conditions

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

### Tests / approvals

|      |         |              |         |
|------|---------|--------------|---------|
| EMC  |         | EN 60947-5-2 |         |
|      |         | EN 55011     | class B |
| MTTF | [years] |              | 4292    |

### Mechanical data

|                    |      |                         |
|--------------------|------|-------------------------|
| Weight             | [g]  | 111                     |
| Housing            |      | threaded type           |
| Mounting           |      | non-flush mountable     |
| Dimensions         | [mm] | M12 x 1                 |
| Thread designation |      | M12 x 1                 |
| Materials          |      | brass nickel-plated; PC |

### Displays / operating elements

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

### Accessories

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

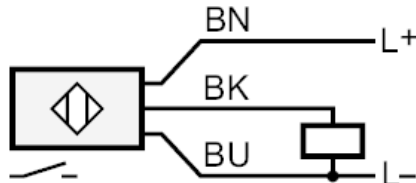
### Remarks

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

### Electrical connection

|                                           |
|-------------------------------------------|
| Cable: 4 m, PVC; 3 x 0.14 mm <sup>2</sup> |
|-------------------------------------------|

### Connection



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