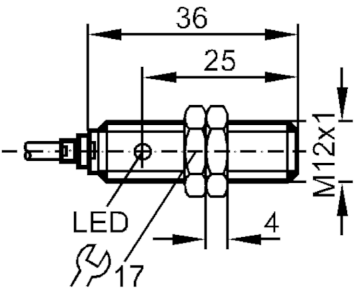


# IF5616



## Inductive sensor

IFB3002-BPKG/O.SS/IE-KAB



| Product characteristics                         |      |                       |
|-------------------------------------------------|------|-----------------------|
| Electrical design                               |      | PNP                   |
| Output function                                 |      | normally open         |
| Sensing range                                   | [mm] | 2                     |
| Housing                                         |      | threaded type         |
| Dimensions                                      | [mm] | M12 x 1               |
| Electrical data                                 |      |                       |
| Operating voltage                               | [V]  | 10...36 DC            |
| Current consumption                             | [mA] | 15; (24 V)            |
| Protection class                                |      | II                    |
| Reverse polarity protection                     |      | yes                   |
| Outputs                                         |      |                       |
| Electrical design                               |      | PNP                   |
| Output function                                 |      | normally open         |
| Max. voltage drop switching output DC           | [V]  | 2.5                   |
| Permanent current rating of switching output DC | [mA] | 125; (150 (...50 °C)) |
| Switching frequency DC                          | [Hz] | 1000                  |
| Short-circuit protection                        |      | yes                   |
| Type of short-circuit protection                |      | pulsed                |
| Overload protection                             |      | yes                   |
| Detection zone                                  |      |                       |
| Sensing range                                   | [mm] | 2                     |

# IF5616



## Inductive sensor

IFB3002-BPKG/O.SS/IE-KAB

|                       |      |          |
|-----------------------|------|----------|
| Real sensing range Sr | [mm] | 2 ± 10 % |
| Operating distance    | [mm] | 0...1.6  |

### Accuracy / deviations

|                    |                                                                             |          |
|--------------------|-----------------------------------------------------------------------------|----------|
| Correction factor  | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3 |          |
| Hysteresis         | [% of Sr]                                                                   | 3...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]      | 2531    |

### Mechanical data

|                    |      |                                  |
|--------------------|------|----------------------------------|
| Weight             | [g]  | 57.5                             |
| Housing            |      | threaded type                    |
| Mounting           |      | flush mountable                  |
| Dimensions         | [mm] | M12 x 1                          |
| Thread designation |      | M12 x 1                          |
| Materials          |      | brass white bronze coated; CO-PC |

### Displays / operating elements

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

### Accessories

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

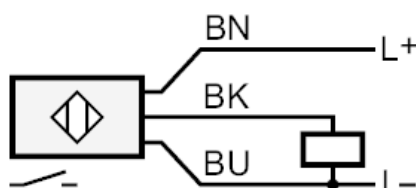
### Remarks

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

### Electrical connection

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

### Connection



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