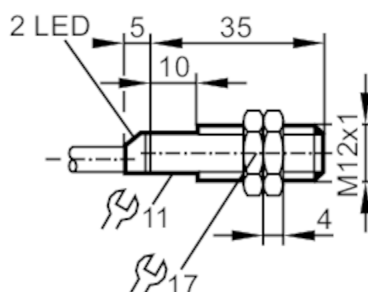




## Inductive sensor

IFB2004BBROG/UP/0,3m/DC

Article no longer available - archive entry



### Product characteristics

|                    |                  |
|--------------------|------------------|
| Electrical design  | PNP/NPN          |
| Output function    | normally closed  |
| Sensing range [mm] | 4                |
| Housing            | threaded type    |
| Dimensions [mm]    | M12 x 1 / L = 40 |

### Application

|                 |                                              |
|-----------------|----------------------------------------------|
| Special feature | Increased sensing range; Optical setting aid |
|-----------------|----------------------------------------------|

### Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...36 DC |
| Protection class            | II         |
| Reverse polarity protection | no         |

### Outputs

|                                                      |                 |
|------------------------------------------------------|-----------------|
| Electrical design                                    | PNP/NPN         |
| Output function                                      | normally closed |
| Max. voltage drop switching output DC [V]            | 5               |
| Minimum load current [mA]                            | 5               |
| Max. leakage current [mA]                            | 1               |
| Permanent current rating of switching output DC [mA] | 100             |
| Switching frequency DC [Hz]                          | 110             |
| Short-circuit protection                             | no              |
| Overload protection                                  | no              |

### Detection zone

|                               |               |
|-------------------------------|---------------|
| Sensing range [mm]            | 4             |
| Real sensing range $S_r$ [mm] | $4 \pm 10 \%$ |
| Operating distance [mm]       | 0...3.25      |
| Increased sensing range       | yes           |

### Accuracy / deviations

|                          |                                                                             |
|--------------------------|-----------------------------------------------------------------------------|
| Correction factor        | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.3 |
| Hysteresis [% of $S_r$ ] | 3...15                                                                      |

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|                    |           |          |
|--------------------|-----------|----------|
| Switch point drift | [% of Sr] | -10...10 |
|--------------------|-----------|----------|

### Operating conditions

|                     |      |          |
|---------------------|------|----------|
| Ambient temperature | [°C] | -25...70 |
|---------------------|------|----------|

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

### Tests / approvals

|     |              |         |
|-----|--------------|---------|
| EMC | EN 60947-5-2 |         |
|     | EN 55011     | class B |

### Mechanical data

|         |               |
|---------|---------------|
| Housing | threaded type |
|---------|---------------|

|          |                 |
|----------|-----------------|
| Mounting | flush mountable |
|----------|-----------------|

|            |      |                  |
|------------|------|------------------|
| Dimensions | [mm] | M12 x 1 / L = 40 |
|------------|------|------------------|

|                    |         |
|--------------------|---------|
| Thread designation | M12 x 1 |
|--------------------|---------|

|           |                                |
|-----------|--------------------------------|
| Materials | brass white bronze coated; PBT |
|-----------|--------------------------------|

### Displays / operating elements

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

|                  |                |
|------------------|----------------|
| switching status | 1 x LED, green |
|------------------|----------------|

|                     |     |
|---------------------|-----|
| Optical setting aid | yes |
|---------------------|-----|

### Accessories

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

### Remarks

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

### Electrical connection - plug

Cable: 0.3 m, PUR; 2 x 0.34 mm<sup>2</sup>

Connector: 1 x M12; coding: A



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### Connection



BK =

Core colours :  
black