



## Inductive sensor

IFA3004-BNKG/20m

Article no longer available - archive entry



### Product characteristics

|                   |      |                  |
|-------------------|------|------------------|
| Electrical design |      | NPN              |
| Output function   |      | normally closed  |
| Sensing range     | [mm] | 4                |
| Housing           |      | threaded type    |
| Dimensions        | [mm] | M12 x 1 / L = 71 |

### Electrical data

|                             |      |            |
|-----------------------------|------|------------|
| Operating voltage           | [V]  | 10...55 DC |
| Current consumption         | [mA] | 5; (24 V)  |
| Protection class            |      | II         |
| Reverse polarity protection |      | yes        |

### Outputs

|                                                 |      |                 |
|-------------------------------------------------|------|-----------------|
| Electrical design                               |      | NPN             |
| Output function                                 |      | normally closed |
| Max. voltage drop switching output DC           | [V]  | 2.5             |
| Permanent current rating of switching output DC | [mA] | 250             |
| Switching frequency DC                          | [Hz] | 400             |
| Short-circuit protection                        |      | yes             |
| Type of short-circuit protection                |      | pulsed          |
| Overload protection                             |      | yes             |

### Detection zone

|                       |      |          |
|-----------------------|------|----------|
| Sensing range         | [mm] | 4        |
| Real sensing range Sr | [mm] | 4 ± 10 % |
| 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 |
|---------------------|------|----------|

# IF5344



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

### Mechanical data

|                    |                          |
|--------------------|--------------------------|
| Housing            | threaded type            |
| Mounting           | non-flush mountable      |
| Dimensions [mm]    | M12 x 1 / L = 71         |
| Thread designation | M12 x 1                  |
| Materials          | brass nickel-plated; PBT |

### Displays / operating elements

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

### Accessories

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

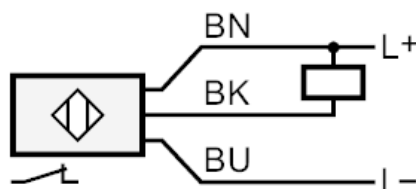
### Remarks

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

### Electrical connection

Cable: 20 m, PVC; 3 x 0.34 mm<sup>2</sup>

### Connection



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