

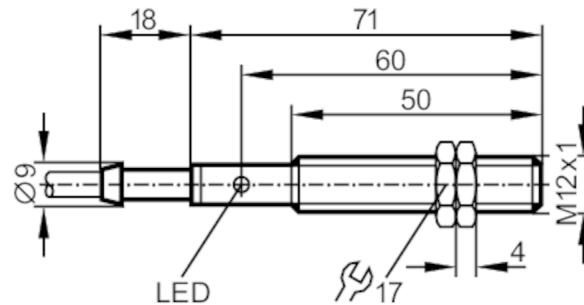
# IF5311



## Inductive sensor

IFA3002-BNKG/10m

Article no longer available - archive entry



### Product characteristics

|                   |      |                  |
|-------------------|------|------------------|
| Electrical design |      | NPN              |
| Output function   |      | normally closed  |
| Sensing range     | [mm] | 2                |
| Housing           |      | Threaded type    |
| Dimensions        | [mm] | M12 x 1 / L = 71 |

### Electrical data

|                             |      |            |
|-----------------------------|------|------------|
| Operating voltage           | [V]  | 10...36 DC |
| Current consumption         | [mA] | 15; (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] | 800                |
| Short-circuit protection                        |      | yes                |
| Type of short-circuit protection                |      | yes (non-latching) |
| Overload protection                             |      | yes                |

### Monitoring range

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

### Accuracy / deviations

|                    |           |  |
|--------------------|-----------|--|
| Correction factor  |           | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2 |
| Hysteresis         | [% of Sr] | 1...15   |
| Switch-point drift | [% of Sr] | -10...10   |

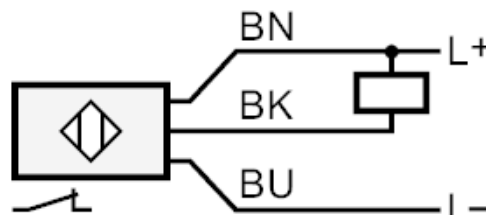
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## Inductive sensor

IFA3002-BNKG/10m

| Operating conditions                       |                  |                                  |
|--|------------------|----------------------------------|
| Ambient temperature                        | [°C]             | -25...80                         |
| 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 = 71                 |
| Thread designation                         |                  | M12 x 1                          |
| Material                                   |                  | 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: 10 m, PVC; 3 x 0.34 mm <sup>2</sup> |                  |                                  |
| Connection                                 |                  |                                  |



Core colors :

BN = brown  
BU = blue  
BK = black