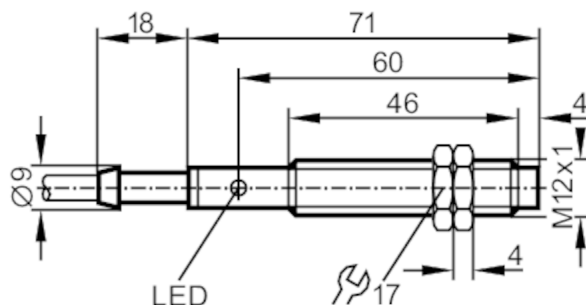


# IF5329



## Inductive sensor

IFA3004-BPKG



### Product characteristics

|                    |                  |
|--------------------|------------------|
| Electrical design  | PNP              |
| Output function    | normally open    |
| Sensing range [mm] | 4                |
| 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                                    | PNP                |
| Output function                                      | normally open      |
| Max. voltage drop switching output DC [V]            | 2.5                |
| Permanent current rating of switching output DC [mA] | 250                |
| Switching frequency DC [Hz]                          | 1500               |
| Short-circuit protection                             | yes                |
| Type of short-circuit protection                     | yes (non-latching) |
| Overload protection                                  | yes                |

### Monitoring range

|                            |          |
|----------------------------|----------|
| 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 / aluminum: 0.3 / copper: 0.2 |
| Hysteresis [% of Sr]         | 1...15                                                                     |
| Switch-point drift [% of Sr] | -10...10                                                                   |

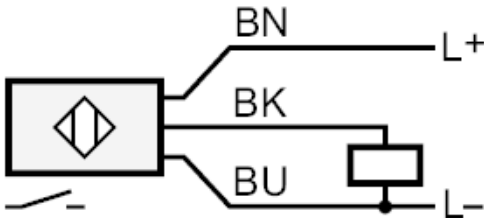
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Inductive sensor

IFA3004-BPKG

| Operating conditions          |                  |                                             |
|-------------------------------|------------------|---------------------------------------------|
| Ambient temperature           | [°C]             | -25...80                                    |
| Protection                    |                  | IP 67                                       |
| Tests / approvals             |                  |                                             |
| EMC                           | EN 60947-5-2     |                                             |
|                               | EN 55011         | class B                                     |
| MTTF                          | [years]          | 1874                                        |
| Mechanical data               |                  |                                             |
| Weight                        | [g]              | 101.2                                       |
| Housing                       |                  | Threaded type                               |
| Mounting                      |                  | non-flush mountable                         |
| Dimensions                    | [mm]             | M12 x 1 / L = 71                            |
| Thread designation            |                  | M12 x 1                                     |
| Material                      |                  | brass white bronze coated; sensing face: 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 0.34 mm² |                  |                                             |
| Connection                    |                  |                                             |



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