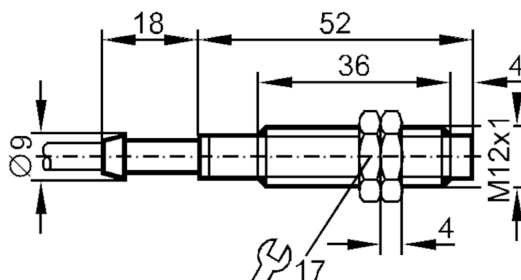


# IF5018



## Inductive sensor

IFK3004-BPKG/OLED



### Product characteristics

|                    |               |
|--------------------|---------------|
| Electrical design  | PNP           |
| Output function    | normally open |
| Sensing range [mm] | 4             |
| Housing            | threaded type |
| Dimensions [mm]    | M12 x 1       |

### Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...30 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] | 200           |
| Switching frequency DC [Hz]                          | 300           |
| Short-circuit protection                             | yes           |
| Overload protection                                  | yes           |

### Detection zone

|                               |              |
|-------------------------------|--------------|
| Sensing range [mm]            | 4            |
| Real sensing range $S_r$ [mm] | $4 \pm 10\%$ |
| 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 $S_r$ ]         | 1...15                                                                      |
| Switch point drift [% of $S_r$ ] | -10...10                                                                    |

### Operating conditions

|                          |          |
|--------------------------|----------|
| Ambient temperature [°C] | -25...80 |
| Protection               | IP 67    |

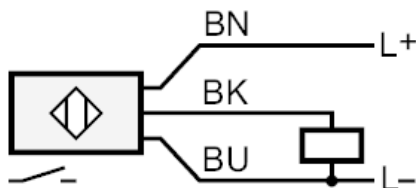
# IF5018



## Inductive sensor

IFK3004-BPKG/OLED

| Tests / approvals                         |              |                               |
|-------------------------------------------|--------------|-------------------------------|
| EMC                                       | EN 60947-5-2 |                               |
|                                           | EN 55011     | class B                       |
| MTTF                                      | [years]      | 1968                          |
| Mechanical data                           |              |                               |
| Weight                                    | [g]          | 96.1                          |
| Housing                                   |              | threaded type                 |
| Mounting                                  |              | non-flush mountable           |
| Dimensions                                | [mm]         | M12 x 1                       |
| Thread designation                        |              | M12 x 1                       |
| Materials                                 |              | brass white bronze coated; PC |
| Accessories                               |              |                               |
| Items supplied                            |              | lock nuts: 2                  |
| Remarks                                   |              |                               |
| Pack quantity                             |              | 1 pcs.                        |
| Electrical connection                     |              |                               |
| Cable: 2 m, PVC; 3 x 0.34 mm <sup>2</sup> |              |                               |
| Connection                                |              |                               |



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