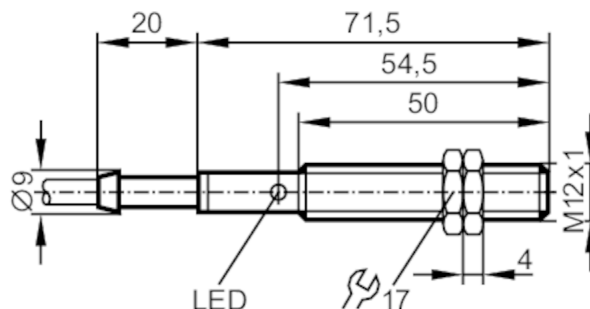


# IF0003



## Inductive sensor

IF-2004-ABOW



### Product characteristics

|                    |                    |
|--------------------|--------------------|
| Output function    | normally open      |
| Sensing range [mm] | 4                  |
| Housing            | Threaded type      |
| Dimensions [mm]    | M12 x 1 / L = 71.5 |

### Electrical data

|                             |             |
|-----------------------------|-------------|
| Frequency AC [Hz]           | 47...63     |
| Operating voltage [V]       | 20...250 AC |
| Protection class            | II          |
| Reverse polarity protection | no          |

### Outputs

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| Output function                                      | normally open         |
| Max. voltage drop switching output AC [V]            | 8.5                   |
| Minimum load current [mA]                            | 8                     |
| Max. leakage current [mA]                            | 2                     |
| Permanent current rating of switching output AC [mA] | 200; (250 (...50 °C)) |
| Short-time current rating of switching output [mA]   | 900; (20 ms / 0,5 Hz) |
| Switching frequency AC [Hz]                          | 25                    |
| Short-circuit proof                                  | no                    |
| Overload protection                                  | no                    |

### 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

IF-2004-ABOW

### Operating conditions

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

### Tests / approvals

|      |         |              |
|------|---------|--------------|
| EMC  |         | EN 60947-5-2 |
| MTTF | [years] | 932          |

### Mechanical data

|                    |      |                     |
|--------------------|------|---------------------|
| Weight             | [g]  | 101.7               |
| Housing            |      | Threaded type       |
| Mounting           |      | non-flush mountable |
| Dimensions         | [mm] | M12 x 1 / L = 71.5  |
| Thread designation |      | M12 x 1             |
| Material           |      | PBT                 |

### Displays / operating elements

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

### Electrical connection

|                     |                                                          |
|---------------------|----------------------------------------------------------|
| Required protection | miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting |
|---------------------|----------------------------------------------------------|

### Accessories

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

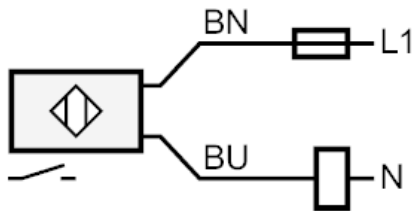
### Remarks

|               |                                                                             |
|---------------|-----------------------------------------------------------------------------|
| Remarks       | Recommendation: check the unit for reliable function after a short circuit. |
| Pack quantity | 1 pcs.                                                                      |

### Electrical connection

Cable: 2 m, PVC; 2 x 0.5 mm<sup>2</sup>

### Connection



Note miniature fuse to IEC60127-2 sheet 1 ≤ 2 A fast acting

Core colors :

BN = brown  
BU = blue