



## Inductive sensor

IFA2004-ABOW/V4A/20M

Article no longer available - archive entry



## Product characteristics

|                 |      |                  |
|-----------------|------|------------------|
| Output function |      | normally open    |
| Sensing range   | [mm] | 4                |
| Housing         |      | Threaded type    |
| Dimensions      | [mm] | M12 x 1 / L = 71 |

## Electrical data

|                             |      |             |
|-----------------------------|------|-------------|
| Frequency AC                | [Hz] | 47...63     |
| Operating voltage           | [V]  | 90...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] | 3 (250 V AC) / 1.5 (120 V AC) |
| 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 protection                        |      | 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                                                                   |

## Operating conditions

|                     |      |          |
|---------------------|------|----------|
| Ambient temperature | [°C] | -25...80 |
|---------------------|------|----------|

# IF0247



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

### Tests / approvals

|     |              |         |
|-----|--------------|---------|
| EMC | EN 60947-5-2 |         |
|     | EN 55011     | class B |

### Mechanical data

|                    |                                                |
|--------------------|------------------------------------------------|
| Housing            | Threaded type                                  |
| Mounting           | non-flush mountable                            |
| Dimensions [mm]    | M12 x 1 / L = 71                               |
| Thread designation | M12 x 1                                        |
| Material           | stainless steel (1.4571/316Ti ); PBT uncolored |

### Displays / operating elements

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

### Accessories

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

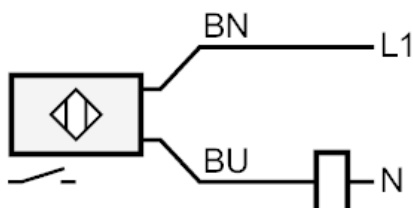
### Remarks

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

### Electrical connection

Cable: 20 m, PVC; 2 x 0.5 mm<sup>2</sup>

### Connection



BN = Core colors :  
brown  
BU = blue