

# IF0225



## Inductive sensor

IFA2004-ABOW

Article no longer available - archive entry

Alternative articles: IF0302

When selecting an alternative article and accessories please note that technical data may differ!



### 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]  | 20...140 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                     |
| 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                                                                     |

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|                    |           |          |
|--------------------|-----------|----------|
| Switch-point drift | [% of Sr] | -10...10 |
|--------------------|-----------|----------|

### 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           |      | non-flush mountable      |
| Dimensions         | [mm] | M12 x 1 / L = 71         |
| Thread designation |      | M12 x 1                  |
| Material           |      | brass nickel-plated; PBT |

### Displays / operating elements

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

### Accessories

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

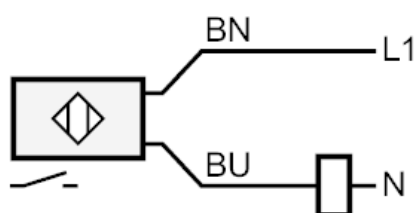
### Remarks

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

### Electrical connection

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

### Connection



BN = Core colors :  
brown  
BU = blue