

# IF0281



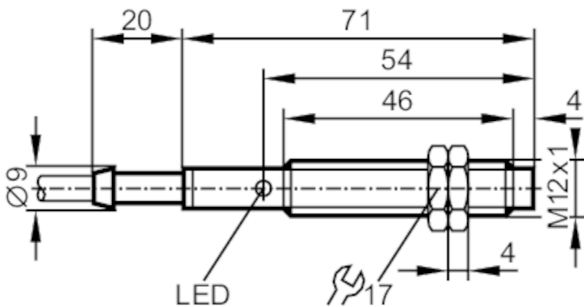
## Inductive sensor

IFA2004-ABOW/ 6mPPU

Article no longer available - archive entry

Alternative articles: IF0027

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]  | 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                            |

### Detection zone

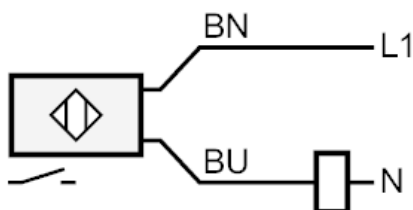
|                       |      |          |
|-----------------------|------|----------|
| Sensing range         | [mm] | 4        |
| Real sensing range Sr | [mm] | 4 ± 10 % |
| Operating distance    | [mm] | 0...3.25 |



## Inductive sensor

IFA2004-ABOW/ 6mPPU

| Accuracy / deviations                                           |                                                                             |                          |
|-----------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------|
| Correction factor                                               | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2 |                          |
| Hysteresis                                                      | [% of Sr]                                                                   | 1...15                   |
| 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                  |
| Materials                                                       |                                                                             | brass nickel-plated; PBT |
| Displays / operating elements                                   |                                                                             |                          |
| Display                                                         | switching status                                                            | 1 x LED, yellow          |
| Accessories                                                     |                                                                             |                          |
| Items supplied                                                  |                                                                             | lock nuts: 2             |
| Remarks                                                         |                                                                             |                          |
| Pack quantity                                                   |                                                                             | 1 pcs.                   |
| Electrical connection                                           |                                                                             |                          |
| Cable: 6 m, PUR / PVC; highly flexible; 2 x 0.5 mm <sup>2</sup> |                                                                             |                          |
| Connection                                                      |                                                                             |                          |



BN = Core colours :  
brown  
BU = blue