

## Inductive sensor

IFA2004-BBOW/10m

Article no longer available - archive entry



## Product characteristics

|                 |      |                  |
|-----------------|------|------------------|
| Output function |      | normally closed  |
| 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...250 AC |
| Protection class            |      | II          |
| Reverse polarity protection |      | no          |

## Outputs

|                                                 |      |                       |
|-------------------------------------------------|------|-----------------------|
| Output function                                 |      | normally closed       |
| 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                    |

## Detection zone

|                       |      |          |
|-----------------------|------|----------|
| 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 / 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 |
|---------------------|------|----------|



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

## Tests / approvals

|      |              |         |
|------|--------------|---------|
| EMC  | EN 60947-5-2 |         |
|      | EN 55011     | class B |
| MTTF | [years]      | 932     |

## Mechanical data

|                    |                                                       |
|--------------------|-------------------------------------------------------|
| Housing            | threaded type                                         |
| Mounting           | non-flush mountable                                   |
| Dimensions         | [mm] M12 x 1 / L = 71                                 |
| Thread designation | M12 x 1                                               |
| Materials          | housing: brass white bronze coated; sensing face: PBT |

## Displays / operating elements

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

## Electrical connection

|                     |                                                               |
|---------------------|---------------------------------------------------------------|
| Required protection | miniature fuse to IEC60127-2 sheet 1; $\leq 2$ A; fast acting |
|---------------------|---------------------------------------------------------------|

## Accessories

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

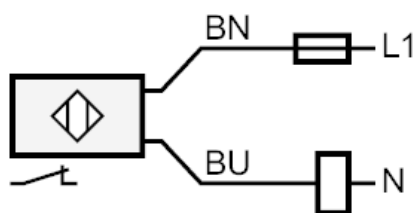
## Remarks

|               |                                                                               |
|---------------|-------------------------------------------------------------------------------|
| Remarks       | Recommendation: Check the safe functioning of the unit after a short circuit. |
| Pack quantity | 1 pcs.                                                                        |

## Electrical connection

Cable: 10 m, PVC; 2 x 0.5 mm<sup>2</sup>

## Connection

Note miniature fuse to IEC60127-2 sheet 1  $\leq 2$  A fast acting

Core colours :

BN = brown  
BU = blue