



## Inductive sensor

IF-2004-ABOW/10M



## 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                                                                   |

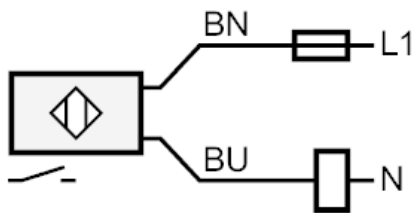
# IF0016



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| Operating conditions                      |                  |                                                                             |
|-------------------------------------------|------------------|-----------------------------------------------------------------------------|
| Ambient temperature                       | [°C]             | -25...80                                                                    |
| Protection                                |                  | IP 67                                                                       |
| Tests / approvals                         |                  |                                                                             |
| EMC                                       |                  | EN 60947-5-2                                                                |
| MTTF                                      | [years]          | 932                                                                         |
| Mechanical data                           |                  |                                                                             |
| Weight                                    | [g]              | 437.5                                                                       |
| 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: 10 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