



## Inductive sensor

IB-2030-ABOA/6M



## Product characteristics

|                 |      |               |
|-----------------|------|---------------|
| Output function |      | normally open |
| Sensing range   | [mm] | 30            |
| Housing         |      | tubular       |
| Dimensions      | [mm] | Ø 34 / L = 82 |

## Electrical data

|                             |     |                |
|-----------------------------|-----|----------------|
| Operating voltage           | [V] | 20...250 AC/DC |
| Protection class            |     | II             |
| Reverse polarity protection |     | no             |

## Outputs

|                                                 |      |                                                 |
|-------------------------------------------------|------|-------------------------------------------------|
| Output function                                 |      | normally open                                   |
| Max. voltage drop switching output DC           | [V]  | 6                                               |
| Max. voltage drop switching output AC           | [V]  | 6.5                                             |
| Minimum load current                            | [mA] | 5                                               |
| Max. leakage current                            | [mA] | 2.5 (250 V AC) / 1.3 (110 V AC) / 0.8 (24 V DC) |
| Permanent current rating of switching output AC | [mA] | 250; (350 (...50 °C))                           |
| Permanent current rating of switching output DC | [mA] | 100                                             |
| Short-time current rating of switching output   | [mA] | 2200; (20 ms / 0,5 Hz)                          |
| Switching frequency AC                          | [Hz] | 25                                              |
| Switching frequency DC                          | [Hz] | 50                                              |
| Short-circuit proof                             |      | no                                              |
| Overload protection                             |      | no                                              |

## Monitoring range

|                       |      |           |
|-----------------------|------|-----------|
| Sensing range         | [mm] | 30        |
| Real sensing range Sr | [mm] | 30 ± 10 % |
| Operating distance    | [mm] | 0...24.3  |



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| 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            |
| Protection                    |           |                                                                             | IP 67               |
| Tests / approvals             |           |                                                                             |                     |
| EMC                           |           | EN 60947-5-2                                                                |                     |
|                               |           | EN 55011                                                                    | class B             |
| MTTF                          |           | [years]                                                                     | 607                 |
| Mechanical data               |           |                                                                             |                     |
| Weight                        |           | [g]                                                                         | 425                 |
| Housing                       |           |                                                                             | tubular             |
| Mounting                      |           |                                                                             | non-flush mountable |
| Dimensions                    |           | [mm]                                                                        | Ø 34 / L = 82       |
| 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                |           | Mounting clamp: 1                                                           |                     |
| Remarks                       |           |                                                                             |                     |
| Remarks                       |           | Recommendation: check the unit for reliable function after a short circuit. |                     |
| Pack quantity                 |           | 1 pcs.                                                                      |                     |
| Electrical connection         |           |                                                                             |                     |
| Cable: 6 m, PVC; 2 x 0.5 mm²  |           |                                                                             |                     |
| Connection                    |           |                                                                             |                     |



Note miniature fuse to IEC60127-2 sheet 1 ≤ 2 A fast acting

Core colors :

BN = brown  
BU = blue