



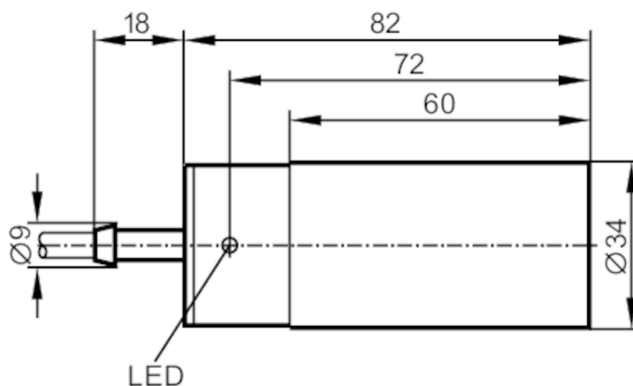
## Inductive sensor

IB-2030-ABOA/F2

Article no longer available - archive entry

Alternative articles: IB0061

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



### Product characteristics

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

### Electrical data

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

### Outputs

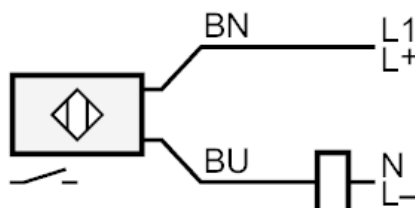
|                                                 |      |                                                 |
|-------------------------------------------------|------|-------------------------------------------------|
| Output function                                 |      | normally open                                   |
| Max. voltage drop switching output DC           | [V]  | 6.5                                             |
| 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 protection                        |      | no                                              |
| Overload protection                             |      | no                                              |



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IB-2030-ABOA/F2

| Detection zone                           |                  |                                                                             |
|------------------------------------------|------------------|-----------------------------------------------------------------------------|
| Sensing range                            | [mm]             | 30                                                                          |
| Real sensing range Sr                    | [mm]             | $30 \pm 10 \%$                                                              |
| Operating distance                       | [mm]             | 0...24.3                                                                    |
| Accuracy / deviations                    |                  |                                                                             |
| Correction factor                        |                  | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3 |
| Hysteresis                               | [% of Sr]        | 3...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                                  |                  | cylindrical                                                                 |
| Mounting                                 |                  | non-flush mountable                                                         |
| Dimensions                               | [mm]             | $\varnothing 34 / L = 82$                                                   |
| Materials                                |                  | PBT                                                                         |
| Displays / operating elements            |                  |                                                                             |
| Display                                  | switching status | 1 x LED, yellow                                                             |
| Accessories                              |                  |                                                                             |
| Items supplied                           |                  | Mounting clamps: 1                                                          |
| Remarks                                  |                  |                                                                             |
| Pack quantity                            |                  | 1 pcs.                                                                      |
| Electrical connection                    |                  |                                                                             |
| Cable: 2 m, PVC; 2 x 0.5 mm <sup>2</sup> |                  |                                                                             |
| Connection                               |                  |                                                                             |



BN = Core colours :  
brown  
BU = blue