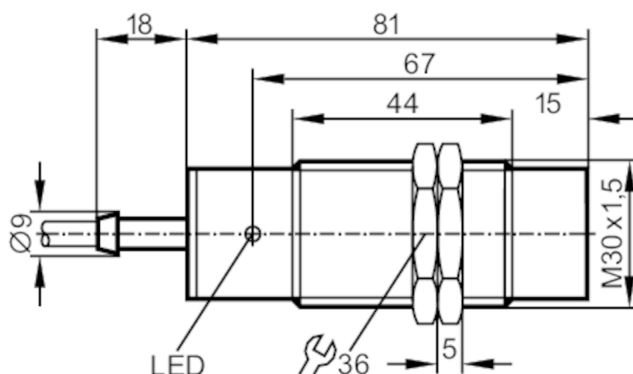


# II0275



## Inductive sensor

IIA2015-BBOA/RT



| Product characteristics                              |   |
|--|---|
| Output function                                      | normally closed                                 |
| Sensing range [mm]                                   | 15  |
| Housing  | threaded type                                   |
| Dimensions [mm]                                      | M30 x 1.5 / L = 81                              |
| Electrical data                                      |   |
| Operating voltage [V]                                | 20...250 AC/DC                                  |
| Protection class                                     | II  |
| Reverse polarity protection                          | no  |
| Outputs  |   |
| Output function                                      | normally closed                                 |
| 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  |
| Detection zone                                       |   |
| Sensing range [mm]                                   | 15  |
| Real sensing range Sr [mm]                           | 15 ± 10 %                                       |
| Operating distance [mm]                              | 0...12.1  |

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| 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   |
| MTTF                          | [years]          | 607   |
| UL approval                   | Ta               | 0...40 °C   |
|                               | Enclosure type   | Type 1  |
|                               | voltage supply   | Hazardous voltage   |
|                               | File number UL   | E174191   |
| Mechanical data               |                  |   |
| Weight                        | [g]              | 254   |
| Housing                       |                  | threaded type   |
| Mounting                      |                  | non-flush mountable   |
| Dimensions                    | [mm]             | M30 x 1.5 / L = 81  |
| Thread designation            |                  | M30 x 1.5   |
| Materials                     |                  | brass white bronze coated; PBT  |
| Displays / operating elements |                  |   |
| Display                       | switching status | 1 x LED, red  |
| Electrical connection         |                  |   |
| Required protection           |                  | miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting                      |
| Accessories                   |                  |   |
| Accessories (supplied)        |                  | lock nuts: 2  |
| Remarks                       |                  |   |
| Remarks                       |                  | Recommendation: Check the safe functioning of the unit after a short circuit. |
| Pack quantity                 |                  | 1 pcs.  |

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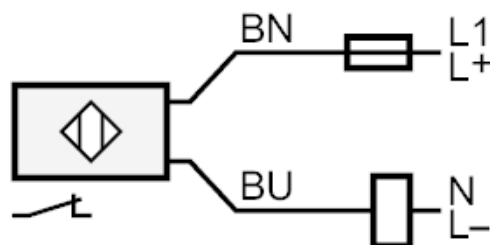
## Inductive sensor

IIA2015-BBOA/RT

### Electrical connection

Cable: 2 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