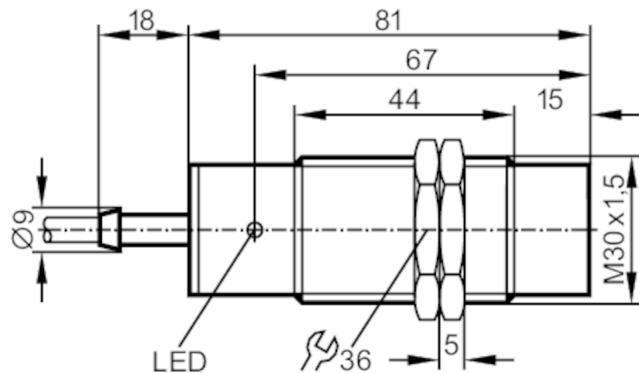




Inductive sensor

I1A2015-ABOA/6M



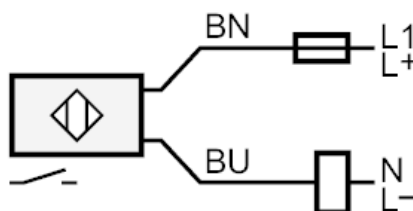
| Product characteristics                         |      |                                                 |
|-------------------------------------------------|------|-------------------------------------------------|
| Output function                                 |      | normally open                                   |
| 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 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                                              |
| Detection zone                                  |      |                                                 |
| Sensing range                                   | [mm] | 15                                              |
| Real sensing range Sr                           | [mm] | 15 ± 10 %                                       |
| Operating distance                              | [mm] | 0...12.1                                        |



## Inductive sensor

IIA2015-ABOA/6M

| 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                                                                |                                                                               |
| MTTF                          |           | [years]                                                                     | 607                                                                           |
| Mechanical data               |           |                                                                             |                                                                               |
| Weight                        |           | [g]                                                                         | 408.5                                                                         |
| Housing                       |           |                                                                             | threaded type                                                                 |
| Mounting                      |           |                                                                             | non-flush mountable                                                           |
| Dimensions                    |           | [mm]                                                                        | M30 x 1.5 / L = 81                                                            |
| Thread designation            |           |                                                                             | M30 x 1.5                                                                     |
| Materials                     |           |                                                                             | brass nickel-plated; sensing face: 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 safe functioning of the unit 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 colours :

BN = brown  
BU = blue