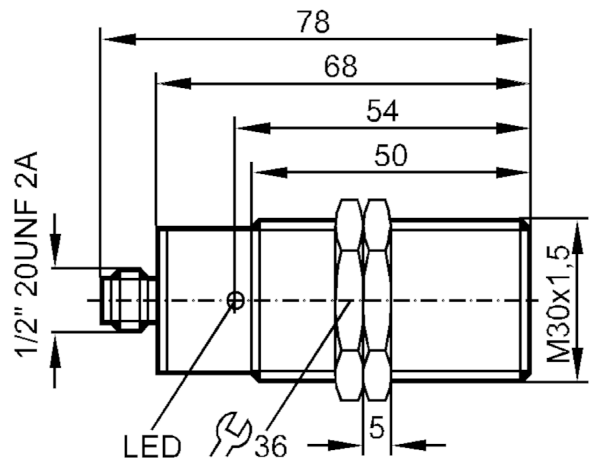




Inductive sensor

I1A2010-BBOA/SL/LS-100AK RT



| Product characteristics                         |      |                                                 |
|-------------------------------------------------|------|-------------------------------------------------|
| Output function                                 |      | normally closed                                 |
| Sensing range                                   | [mm] | 10                                              |
| Housing                                         |      | Threaded type                                   |
| Dimensions                                      | [mm] | M30 x 1.5 / L = 78                              |
| Electrical data                                 |      |                                                 |
| Operating voltage                               | [V]  | 20...250 AC/DC                                  |
| Protection class                                |      | I                                               |
| 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] | 25                                              |



## Inductive sensor

IIA2010-BBOA/SL/LS-100AK RT

|                               |                                                                             |                    |
|-------------------------------|-----------------------------------------------------------------------------|--------------------|
| Short-circuit proof           |                                                                             | no                 |
| Overload protection           |                                                                             | no                 |
| Monitoring range              |                                                                             |                    |
| Sensing range                 | [mm]                                                                        | 10                 |
| Real sensing range Sr         | [mm]                                                                        | 10 ± 10 %          |
| Operating distance            | [mm]                                                                        | 0...8.1            |
| Accuracy / deviations         |                                                                             |                    |
| Correction factor             | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 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            |
| MTTF                          | [years]                                                                     | 610                |
| Mechanical data               |                                                                             |                    |
| Weight                        | [g]                                                                         | 167                |
| Housing                       | Threaded type                                                               |                    |
| Mounting                      | flush mountable                                                             |                    |
| Dimensions                    | [mm]                                                                        | M30 x 1.5 / L = 78 |
| Thread designation            | M30 x 1.5                                                                   |                    |
| Material                      | housing: brass white bronze coated; sensing face: PC                        |                    |
| 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                   |                                                                             |                    |
| Items supplied                | lock nuts: 2                                                                |                    |
| Remarks                       |                                                                             |                    |
| Remarks                       | Recommendation: check the unit for reliable function after a short circuit. |                    |
| Pack quantity                 | 1 pcs.                                                                      |                    |

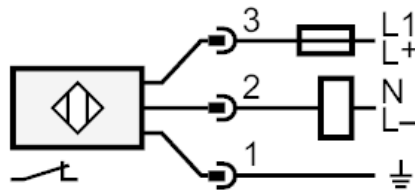


## Inductive sensor

IIA2010-BBOA/SL/LS-100AK RT

### Electrical connection - plug

Connector: 1 x 1/2"; coding: C



Note miniature fuse to IEC60127-2 sheet 1  $\leq 2$  A fast acting