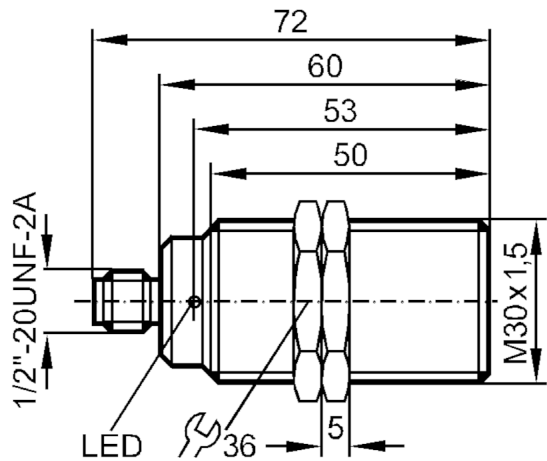




Inductive sensor

I1K2015BABOA/SL/LS-100-AK



| Product characteristics                         |      |                                               |
|-------------------------------------------------|------|-----------------------------------------------|
| Output function                                 |      | normally open                                 |
| Sensing range                                   | [mm] | 15                                            |
| Housing                                         |      | threaded type                                 |
| Dimensions                                      | [mm] | M30 x 1.5                                     |
| Application                                     |      |                                               |
| Special feature                                 |      | Increased sensing range                       |
| Electrical data                                 |      |                                               |
| Operating voltage                               | [V]  | 20...250 AC/DC                                |
| Protection class                                |      | I                                             |
| 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] | 1 (250 V AC) / 0.8 (140 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)                        |

# II0340



## Inductive sensor

IIK2015BABOA/SL/LS-100-AK

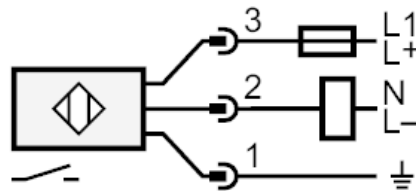
|                               |                  |                                                                                         |
|-------------------------------|------------------|-----------------------------------------------------------------------------------------|
| Switching frequency AC        | [Hz]             | 25                                                                                      |
| Switching frequency DC        | [Hz]             | 40                                                                                      |
| Short-circuit proof           |                  | no                                                                                      |
| Overload protection           |                  | no                                                                                      |
| Detection zone                |                  |                                                                                         |
| Sensing range                 | [mm]             | 15                                                                                      |
| Operating distance            | [mm]             | 0...12.1                                                                                |
| Increased sensing range       |                  | yes                                                                                     |
| Accuracy / deviations         |                  |                                                                                         |
| Correction factor             |                  | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.47 / copper: 0.4            |
| Hysteresis                    | [% of Sr]        | 3...20                                                                                  |
| Operating conditions          |                  |                                                                                         |
| Ambient temperature           | [°C]             | -25...70                                                                                |
| Protection                    |                  | IP 67                                                                                   |
| Tests / approvals             |                  |                                                                                         |
| EMC                           | EN 60947-5-2     |                                                                                         |
|                               | EN 55011         | class B                                                                                 |
| MTTF                          | [years]          | 609                                                                                     |
| Mechanical data               |                  |                                                                                         |
| Weight                        | [g]              | 231.5                                                                                   |
| Housing                       |                  | threaded type                                                                           |
| Mounting                      |                  | flush mountable                                                                         |
| Dimensions                    | [mm]             | M30 x 1.5                                                                               |
| Thread designation            |                  | M30 x 1.5                                                                               |
| Materials                     |                  | housing: brass white bronze coated; sensing face: PBT; LED window: PA; lock nuts: brass |
| 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                                                                            |
|                               |                  | serrated washers: 2                                                                     |
| Remarks                       |                  |                                                                                         |
| Remarks                       |                  | Recommendation: Check the safe functioning of the unit after a short circuit.           |
| Pack quantity                 |                  | 1 pcs.                                                                                  |

## Inductive sensor

IIK2015BABOA/SL/LS-100-AK

### Electrical connection - plug

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



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