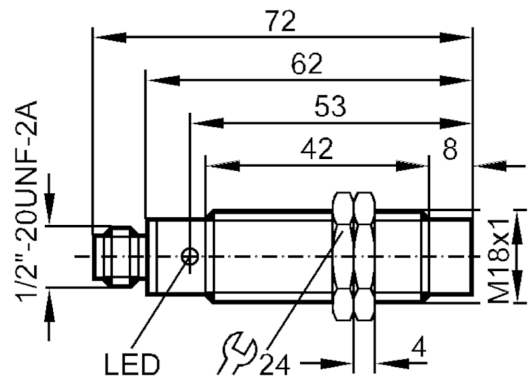




Inductive sensor

IGK2012-ABOA/SL/LS100-AK   RT



| Product characteristics                         |      |                                               |
|-------------------------------------------------|------|-----------------------------------------------|
| Output function                                 |      | normally open                                 |
| Sensing range                                   | [mm] | 12                                            |
| Housing                                         |      | threaded type                                 |
| Dimensions                                      | [mm] | M18 x 1                                       |
| 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)                        |



## Inductive sensor

IGK2012-ABOA/SL/LS100-AK RT

|                                      |                  |                                                                               |
|--------------------------------------|------------------|-------------------------------------------------------------------------------|
| Switching frequency AC               | [Hz]             | 25                                                                            |
| Switching frequency DC               | [Hz]             | 90                                                                            |
| Short-circuit proof                  |                  | no                                                                            |
| Overload protection                  |                  | no                                                                            |
| <b>Detection zone</b>                |                  |                                                                               |
| Sensing range                        | [mm]             | 12                                                                            |
| Operating distance                   | [mm]             | 0...9.7                                                                       |
| Increased sensing range              |                  | yes                                                                           |
| <b>Accuracy / deviations</b>         |                  |                                                                               |
| Correction factor                    |                  | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.5 / copper: 0.4   |
| Hysteresis                           | [% of Sr]        | 3...15                                                                        |
| <b>Operating conditions</b>          |                  |                                                                               |
| Ambient temperature                  | [°C]             | -25...70                                                                      |
| Protection                           |                  | IP 67                                                                         |
| <b>Tests / approvals</b>             |                  |                                                                               |
| EMC                                  | EN 60947-5-2     |                                                                               |
|                                      | EN 55011         | class B                                                                       |
| MTTF                                 | [years]          | 616                                                                           |
| UL approval                          | Ta               | 0...40 °C                                                                     |
|                                      | Enclosure type   | Type 1                                                                        |
|                                      | power supply     | Hazardous voltage                                                             |
|                                      | File number UL   | E174191                                                                       |
| <b>Mechanical data</b>               |                  |                                                                               |
| Weight                               | [g]              | 63.2                                                                          |
| Housing                              |                  | threaded type                                                                 |
| Mounting                             |                  | non-flush mountable                                                           |
| Dimensions                           | [mm]             | M18 x 1                                                                       |
| Thread designation                   |                  | M18 x 1                                                                       |
| Materials                            |                  | brass white bronze coated; PA; PBT                                            |
| <b>Displays / operating elements</b> |                  |                                                                               |
| Display                              | switching status | 1 x LED, red                                                                  |
| <b>Electrical connection</b>         |                  |                                                                               |
| Required protection                  |                  | miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting                      |
| <b>Accessories</b>                   |                  |                                                                               |
| Items supplied                       |                  | lock nuts: 2                                                                  |
| <b>Remarks</b>                       |                  |                                                                               |
| Remarks                              |                  | Recommendation: Check the safe functioning of the unit after a short circuit. |
| Pack quantity                        |                  | 1 pcs.                                                                        |

# IG0345

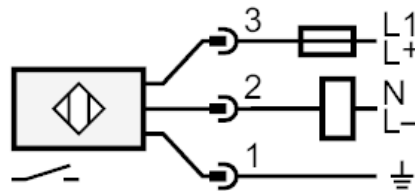


## Inductive sensor

IGK2012-ABOA/SL/LS100-AK RT

### Electrical connection - plug

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



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