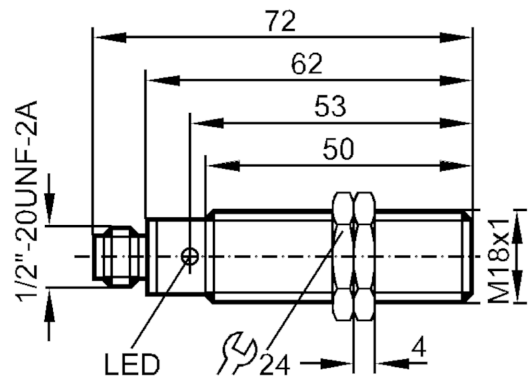


IG0344



Inductive sensor

IGK2008BABOA/SL/LS100-AK RT



| Product characteristics     |                         |
|-----------------------------|-------------------------|
| Output function             | normally open           |
| Sensing range [mm]          | 8                       |
| 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                      |



## Inductive sensor

IGK2008BABOA/SL/LS100-AK RT

| 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)                                                        |                   |
| Switching frequency AC                          | [Hz]      | 25                                                                            |                   |
| Switching frequency DC                          | [Hz]      | 60                                                                            |                   |
| Short-circuit proof                             |           | no                                                                            |                   |
| Overload protection                             |           | no                                                                            |                   |
| Detection zone                                  |           |                                                                               |                   |
| Sensing range                                   | [mm]      | 8                                                                             |                   |
| Operating distance                              | [mm]      | 0...6.5                                                                       |                   |
| Increased sensing range                         |           | yes                                                                           |                   |
| Accuracy / deviations                           |           |                                                                               |                   |
| Correction factor                               |           | steel: 1 / stainless steel: 0.7 / brass: 0.45 / aluminium: 0.4 / copper: 0.33 |                   |
| Hysteresis                                      | [% of Sr] | 3...15                                                                        |                   |
| Operating conditions                            |           |                                                                               |                   |
| Ambient temperature                             | [°C]      | -25...70                                                                      |                   |
| Protection                                      |           | IP 67                                                                         |                   |
| Tests / approvals                               |           |                                                                               |                   |
| EMC                                             |           | EN 60947-5-2                                                                  |                   |
| MTTF                                            | [years]   | 612                                                                           |                   |
| UL approval                                     |           | Ta                                                                            | 0...40 °C         |
|                                                 |           | Enclosure type                                                                | Type 1            |
|                                                 |           | voltage supply                                                                | Hazardous voltage |
|                                                 |           | File number UL                                                                | E174191           |
| Mechanical data                                 |           |                                                                               |                   |
| Weight                                          | [g]       | 65.2                                                                          |                   |
| Housing                                         |           | threaded type                                                                 |                   |
| Mounting                                        |           | flush mountable                                                               |                   |
| Dimensions                                      | [mm]      | M18 x 1                                                                       |                   |
| Thread designation                              |           | M18 x 1                                                                       |                   |
| Materials                                       |           | brass white bronze coated; PA; PBT                                            |                   |
| Displays / operating elements                   |           |                                                                               |                   |
| Display                                         |           | switching status                                                              | 1 x LED, red      |

# IG0344

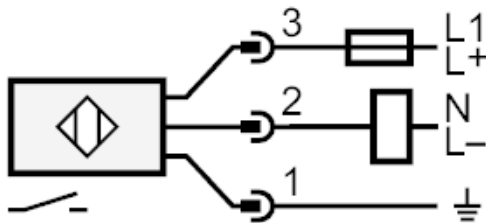


## Inductive sensor

IGK2008BABOA/SL/LS100-AK RT

| Electrical connection        |                                                                               |
|------------------------------|-------------------------------------------------------------------------------|
| Required protection          | miniature fuse to IEC60127-2 sheet 1; $\leq 2$ 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.                                                                        |
| Electrical connection - plug |                                                                               |

Connector: 1 x 1/2"



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