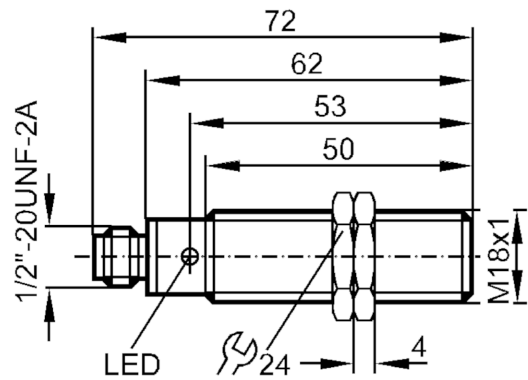




Inductive sensor

IGK2008BABOA/SL/LS100-AK RT



Product characteristics

|                 |      |                  |
|-----------------|------|------------------|
| Output function |      | normally open    |
| Sensing range   | [mm] | 8                |
| Housing         |      | Threaded type    |
| Dimensions      | [mm] | M18 x 1 / L = 72 |

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)                        |

# IG0344



## Inductive sensor

IGK2008BABOA/SL/LS100-AK RT

|                                      |                  |                                                                              |
|--------------------------------------|------------------|------------------------------------------------------------------------------|
| Switching frequency AC               | [Hz]             | 25                                                                           |
| Switching frequency DC               | [Hz]             | 60                                                                           |
| Short-circuit proof                  |                  | no                                                                           |
| Overload protection                  |                  | no                                                                           |
| <b>Monitoring range</b>              |                  |                                                                              |
| Sensing range                        | [mm]             | 8                                                                            |
| Operating distance                   | [mm]             | 0...6.5                                                                      |
| Increased sensing range              |                  | yes                                                                          |
| <b>Accuracy / deviations</b>         |                  |                                                                              |
| Correction factor                    |                  | steel: 1 / stainless steel: 0.7 / brass: 0.45 / aluminum: 0.4 / copper: 0.33 |
| 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                                                                 |
| MTTF                                 | [years]          | 612                                                                          |
| UL approval                          | Ta               | 0...40 °C                                                                    |
|                                      | Enclosure type   | Type 1                                                                       |
|                                      | File number UL   | E174191                                                                      |
| <b>Mechanical data</b>               |                  |                                                                              |
| Weight                               | [g]              | 65.2                                                                         |
| Housing                              |                  | Threaded type                                                                |
| Mounting                             |                  | flush mountable                                                              |
| Dimensions                           | [mm]             | M18 x 1 / L = 72                                                             |
| Thread designation                   |                  | M18 x 1                                                                      |
| Material                             |                  | 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 unit for reliable function after a short circuit.  |
| Pack quantity                        |                  | 1 pcs.                                                                       |

# IG0344

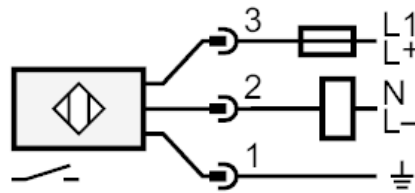


## Inductive sensor

IGK2008BABOA/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