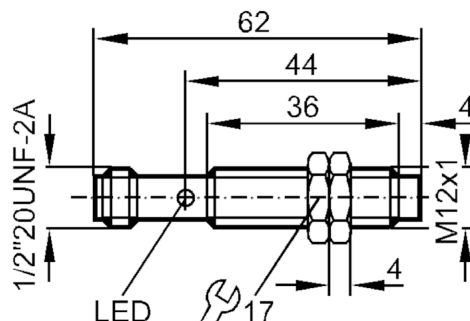




## Inductive sensor

IFK2007-ARO/SL/LS-100AK RT



## Product characteristics

|                 |      |               |
|-----------------|------|---------------|
| Output function |      | normally open |
| Sensing range   | [mm] | 7             |
| Housing         |      | threaded type |
| Dimensions      | [mm] | M12 x 1       |

## Application

|                 |                         |
|-----------------|-------------------------|
| Special feature | Increased sensing range |
|-----------------|-------------------------|

## Electrical data

|                             |      |                           |
|-----------------------------|------|---------------------------|
| Frequency AC                | [Hz] | 47...63                   |
| Operating voltage           | [V]  | 20...140 AC / 10...140 DC |
| Protection class            |      | I                         |
| Reverse polarity protection |      | no                        |

## Outputs

|                                                 |      |                       |
|-------------------------------------------------|------|-----------------------|
| Output function                                 |      | normally open         |
| Max. voltage drop switching output DC           | [V]  | 5                     |
| Max. voltage drop switching output AC           | [V]  | 5                     |
| Minimum load current                            | [mA] | 5                     |
| Max. leakage current                            | [mA] | 0.8                   |
| Permanent current rating of switching output AC | [mA] | 200                   |
| Permanent current rating of switching output DC | [mA] | 200                   |
| Short-time current rating of switching output   | [mA] | 900; (20 ms / 0,5 Hz) |
| Switching frequency AC                          | [Hz] | 25                    |
| Switching frequency DC                          | [Hz] | 90                    |
| Short-circuit proof                             |      | no                    |
| Overload protection                             |      | no                    |

## Detection zone

|                         |      |         |
|-------------------------|------|---------|
| Sensing range           | [mm] | 7       |
| Operating distance      | [mm] | 0...5.7 |
| Increased sensing range |      | yes     |



## Inductive sensor

IFK2007-ARO/SL/LS-100AK RT

| Accuracy / deviations                                                                          |                                                                               |                   |
|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------|
| Correction factor                                                                              | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2   |                   |
| Hysteresis                                                                                     | [% of Sr]                                                                     | 3...15            |
| Operating conditions                                                                           |                                                                               |                   |
| Ambient temperature                                                                            | [°C]                                                                          | -25...70          |
| Protection                                                                                     | IP 67                                                                         |                   |
| Tests / approvals                                                                              |                                                                               |                   |
| EMC                                                                                            | EN 60947-5-2                                                                  |                   |
|                                                                                                | EN 55011                                                                      | class B           |
| MTTF                                                                                           | [years]                                                                       | 1684              |
| UL approval                                                                                    | Ta                                                                            | 0...40 °C         |
|                                                                                                | Enclosure type                                                                | Type 1            |
|                                                                                                | power supply                                                                  | Hazardous voltage |
|                                                                                                | File number UL                                                                | E174191           |
| Mechanical data                                                                                |                                                                               |                   |
| Weight                                                                                         | [g]                                                                           | 30.1              |
| Housing                                                                                        | threaded type                                                                 |                   |
| Mounting                                                                                       | non-flush mountable                                                           |                   |
| Dimensions                                                                                     | [mm]                                                                          | M12 x 1           |
| Thread designation                                                                             | M12 x 1                                                                       |                   |
| Materials                                                                                      | brass white bronze coated; PBT                                                |                   |
| 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 safe functioning of the unit after a short circuit. |                   |
| Pack quantity                                                                                  | 1 pcs.                                                                        |                   |
| Electrical connection - plug                                                                   |                                                                               |                   |
| Connector: 1 x 1/2"; coding: C                                                                 |                                                                               |                   |
| <div></div> |                                                                               |                   |

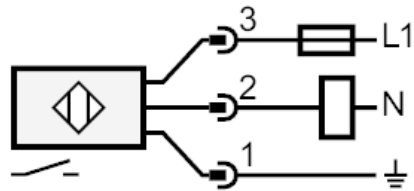
# IF0312



## Inductive sensor

IFK2007-AROA/SL/LS-100AK RT

### Connection



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