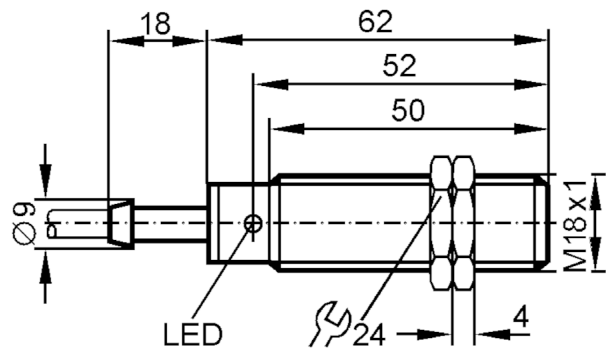


# IG4000



## Inductive sensor

IGK2008BABOA/MONOALTERNANCE RT



### Product characteristics

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

### Electrical data

|                             |     |                |
|-----------------------------|-----|----------------|
| Operating voltage           | [V] | 20...250 AC/DC |
| Protection class            |     | II             |
| Reverse polarity protection |     | no             |

### Outputs

|                                                 |      |                                                 |
|-------------------------------------------------|------|-------------------------------------------------|
| Output function                                 |      | normally open                                   |
| Max. voltage drop switching output DC           | [V]  | 6.5                                             |
| Max. voltage drop switching output AC           | [V]  | 6.5                                             |
| Minimum load current                            | [mA] | 6                                               |
| Max. leakage current                            | [mA] | 2.5 (250 V AC) / 1.3 (110 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] | 20                                              |

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|                                      |                                                                             |
|--------------------------------------|-----------------------------------------------------------------------------|
| Short-circuit proof                  | no                                                                          |
| Overload protection                  | no                                                                          |
| <b>Monitoring range</b>              |                                                                             |
| Sensing range [mm]                   | 8                                                                           |
| Real sensing range Sr [mm]           | 8 ± 10 %                                                                    |
| Operating distance [mm]              | 0...6.5                                                                     |
| <b>Accuracy / deviations</b>         |                                                                             |
| Correction factor                    | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.4 / copper: 0.3  |
| Hysteresis [% of Sr]                 | 1...15                                                                      |
| Switch-point drift [% of Sr]         | -10...10                                                                    |
| <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]                         | 619                                                                         |
| <b>Mechanical data</b>               |                                                                             |
| Weight [g]                           | 245.6                                                                       |
| Housing                              | Threaded type                                                               |
| Mounting                             | flush mountable                                                             |
| Dimensions [mm]                      | M18 x 1                                                                     |
| Thread designation                   | M18 x 1                                                                     |
| Material                             | brass white bronze coated; 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.                                                                      |

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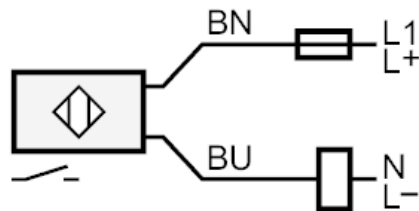
## Inductive sensor

IGK2008BABOA/MONOALTERNANCE RT

### Electrical connection

Cable: 6 m, PUR; 2 x 0.34 mm<sup>2</sup>

### Connection



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

Core colors :

BN =

brown

BU =

blue