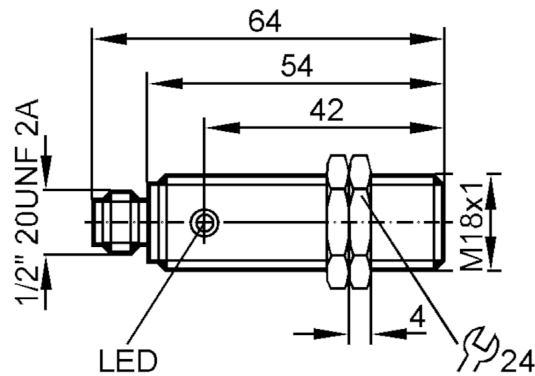




Inductive sensor

IGB2005-ABOA/SL/LS-100AK/RT



| Product characteristics                         |      |                                                 |
|-------------------------------------------------|------|-------------------------------------------------|
| Output function                                 |      | normally open                                   |
| Sensing range                                   | [mm] | 5                                               |
| Housing                                         |      | threaded type                                   |
| Dimensions                                      | [mm] | M18 x 1                                         |
| 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] | 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] | 100                                             |



## Inductive sensor

IGB2005-ABOA/SL/LS-100AK/RT

|                               |                                                                               |                   |
|-------------------------------|-------------------------------------------------------------------------------|-------------------|
| Short-circuit proof           |                                                                               | no                |
| Overload protection           |                                                                               | no                |
| Detection zone                |                                                                               |                   |
| Sensing range                 | [mm]                                                                          | 5                 |
| Real sensing range Sr         | [mm]                                                                          | 5 ± 10 %          |
| Operating distance            | [mm]                                                                          | 0...4.05          |
| Accuracy / deviations         |                                                                               |                   |
| Correction factor             | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3   |                   |
| Hysteresis                    | [X01]                                                                         | 3...15            |
| Switch point drift            | [X01]                                                                         | -10...10          |
| Operating conditions          |                                                                               |                   |
| Ambient temperature           | [°C]                                                                          | -25...80          |
| Protection                    | IP 67                                                                         |                   |
| Tests / approvals             |                                                                               |                   |
| EMC                           | EN 60947-5-2                                                                  |                   |
|                               | EN 55011                                                                      | class B           |
| MTTF                          | [ANN]                                                                         | 609               |
| UL approval                   | Ta                                                                            | 0...40 °C         |
|                               | Enclosure type                                                                | Type 1            |
|                               | подача напруги                                                                | Hazardous voltage |
|                               | File number UL                                                                | E174191           |
| Mechanical data               |                                                                               |                   |
| Weight                        | [g]                                                                           | 62.6              |
| Housing                       | threaded type                                                                 |                   |
| Mounting                      | flush mountable                                                               |                   |
| Dimensions                    | [mm]                                                                          | M18 x 1           |
| Thread designation            | M18 x 1                                                                       |                   |
| Materials                     | brass white bronze coated; PC                                                 |                   |
| 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                      |                   |
| Аксессуары                    |                                                                               |                   |
| Items supplied                | lock nuts: 2                                                                  |                   |
| Remarks                       |                                                                               |                   |
| Remarks                       | Recommendation: Check the safe functioning of the unit after a short circuit. |                   |
| Pack quantity                 | 1 pcs.                                                                        |                   |

# IG0348

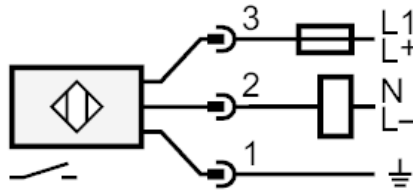


## Inductive sensor

IGB2005-ABOA/SL/LS-100AK/RT

### Electrical connection - plug

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



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