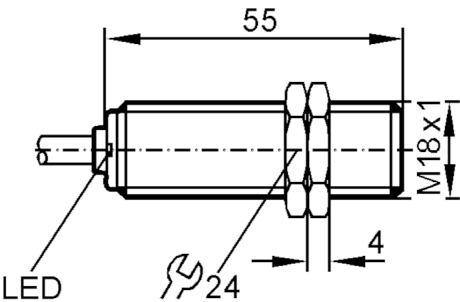




Inductive sensor

IGK2005-ABOA/PH



| 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                                |      | II                                              |
| Reverse polarity protection                     |      | yes                                             |
| 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] | 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

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|                               |                                                                               |                 |
|-------------------------------|-------------------------------------------------------------------------------|-----------------|
| 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                    | [% of Sr]                                                                     | 1...15          |
| Switch point drift            | [% of Sr]                                                                     | -10...10        |
| Operating conditions          |                                                                               |                 |
| Ambient temperature           | [°C]                                                                          | -25...80        |
| Protection                    | IP 67                                                                         |                 |
| Tests / approvals             |                                                                               |                 |
| EMC                           | EN 60947-5-2                                                                  |                 |
| MTTF                          | [years]                                                                       | 607             |
| Mechanical data               |                                                                               |                 |
| Weight                        | [g]                                                                           | 133.5           |
| Housing                       | threaded type                                                                 |                 |
| Mounting                      | flush mountable                                                               |                 |
| Dimensions                    | [mm]                                                                          | M18 x 1         |
| Thread designation            | M18 x 1                                                                       |                 |
| Materials                     | brass white bronze coated; sensing face: PBT                                  |                 |
| Displays / operating elements |                                                                               |                 |
| Display                       | switching status                                                              | 1 x LED, yellow |
| 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.                                                                        |                 |



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### Electrical connection

Cable: 2 m, PPU; 2 x 0.5 mm<sup>2</sup>

### Connection



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

BN =

brown

BU =

blue