

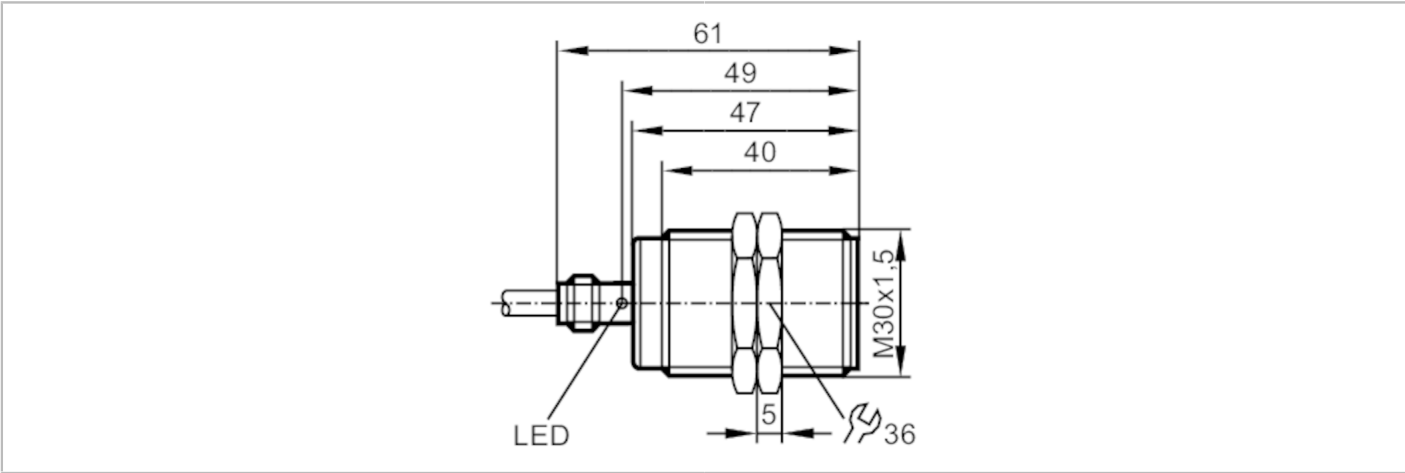


Inductive sensor

IIK3010-ANKG/II/2M

phase-out article

Alternative articles: IIS240  
When selecting an alternative article and accessories please note that technical data may differ!



Product characteristics

|                    |                    |
|--------------------|--------------------|
| Electrical design  | NPN                |
| Output function    | normally open      |
| Sensing range [mm] | 10                 |
| Housing            | threaded type      |
| Dimensions [mm]    | M30 x 1.5 / L = 61 |

Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 15...30 DC |
| Current consumption [mA]    | < 15       |
| Protection class            | III        |
| Reverse polarity protection | yes        |

Outputs

|                                                      |               |
|------------------------------------------------------|---------------|
| Electrical design                                    | NPN           |
| Output function                                      | normally open |
| Max. voltage drop switching output DC [V]            | 2.5           |
| Permanent current rating of switching output DC [mA] | 100           |
| Switching frequency DC [Hz]                          | 200           |
| Short-circuit protection                             | yes           |
| Type of short-circuit protection                     | pulsed        |
| Overload protection                                  | yes           |

Detection zone

|                            |           |
|----------------------------|-----------|
| Sensing range [mm]         | 10        |
| Real sensing range Sr [mm] | 10 ± 10 % |
| Operating distance [mm]    | 0...8.1   |



## Inductive sensor

IIK3010-ANKG/II/2M

| Accuracy / deviations         |                                                                             |                                                                   |
|-------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------|
| Correction factor             | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.4 / copper: 0.3 |                                                                   |
| Hysteresis                    | [X01]                                                                       | 1...20                                                            |
| Switch point drift            | [X01]                                                                       | -10...10                                                          |
| Operating conditions          |                                                                             |                                                                   |
| Ambient temperature           | [°C]                                                                        | -25...70                                                          |
| Protection                    |                                                                             | IP 67                                                             |
| Tests / approvals             |                                                                             |                                                                   |
| EMC                           | EN 61000-4-2 ESD                                                            | 4 kV CD / 8 kV AD                                                 |
|                               | EN 61000-4-3 HF radiated                                                    | 10 V/m                                                            |
|                               | EN 61000-4-4 Burst                                                          | 2 kV                                                              |
|                               | EN 61000-4-6 HF conducted                                                   | 3 V                                                               |
|                               | EN 55011 emission                                                           | class B                                                           |
| MTTF                          | [ANN]                                                                       | 1268                                                              |
| UL approval                   | Ta                                                                          | -25...70 °C                                                       |
|                               | Enclosure type                                                              | Type 1                                                            |
|                               | подача напруги                                                              | Limited Voltage/Current                                           |
|                               | File number UL                                                              | E174191                                                           |
| Mechanical data               |                                                                             |                                                                   |
| Weight                        | [g]                                                                         | 178.7                                                             |
| Housing                       |                                                                             | threaded type                                                     |
| Mounting                      |                                                                             | flush mountable                                                   |
| Dimensions                    | [mm]                                                                        | M30 x 1.5 / L = 61                                                |
| Thread designation            |                                                                             | M30 x 1.5                                                         |
| Materials                     |                                                                             | housing: brass nickel-plated; sensing face: PBT; lock nuts: brass |
| Displays / operating elements |                                                                             |                                                                   |
| Display                       | switching status                                                            | 1 x LED, yellow                                                   |
| Аксессуары                    |                                                                             |                                                                   |
| Items supplied                |                                                                             | lock nuts: 2                                                      |
| Remarks                       |                                                                             |                                                                   |
| Pack quantity                 |                                                                             | 1 pcs.                                                            |

# II7106



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### Electrical connection

Cable: 2 m, PVC, Ø 4.9 mm; 3 x 0.34 mm<sup>2</sup>

### Connection



|      |                |
|------|----------------|
| BK = | Core colours : |
| BN = | black          |
| BU = | brown          |
|      | blue           |