

# KI5210



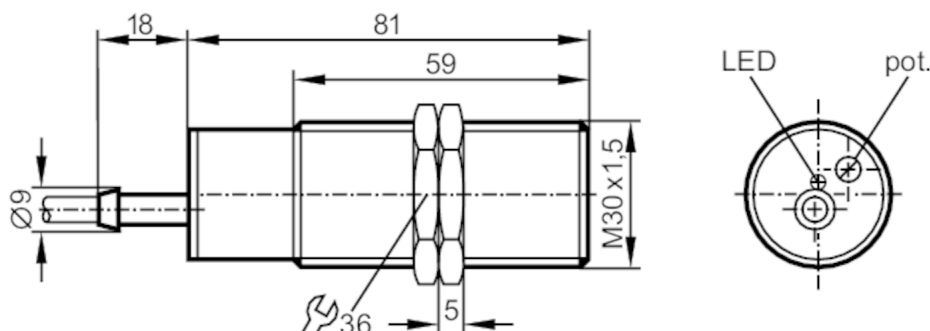
## Capacitive sensor

KI-3015-FNKG/NI/0,10M/PH/US100

Article to be discontinued

Alternative articles: KI5300 or KI5302

When selecting an alternative article and accessories please note that technical data may differ!



### Product characteristics

|                    |                                      |
|--------------------|--------------------------------------|
| Electrical design  | NPN                                  |
| Output function    | normally open / closed; (selectable) |
| Sensing range [mm] | 3...15                               |
| Housing            | Threaded type                        |
| Dimensions [mm]    | M30 x 1.5 / L = 81                   |

### Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...36 DC |
| Current consumption [mA]    | < 15       |
| Protection class            | II         |
| Reverse polarity protection | yes        |

### Outputs

|                                                      |                                      |
|------------------------------------------------------|--------------------------------------|
| Electrical design                                    | NPN                                  |
| Output function                                      | normally open / closed; (selectable) |
| Max. voltage drop switching output DC [V]            | 2.5                                  |
| Permanent current rating of switching output DC [mA] | 250                                  |
| Short-time current rating of switching output [mA]   | 250                                  |
| Switching frequency DC [Hz]                          | 40                                   |
| Short-circuit proof                                  | yes                                  |
| Overload protection                                  | yes                                  |

### Monitoring range

|                                    |           |
|------------------------------------|-----------|
| Sensing range [mm]                 | 3...15    |
| Sensing range adjustable           | yes       |
| Factory setting sensing range [mm] | 15        |
| Real sensing range Sr [mm]         | 15 ± 10 % |

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## Capacitive sensor

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|                                      |                  |                                                  |
|--------------------------------------|------------------|--------------------------------------------------|
| Operating distance                   | [mm]             | 0...12.1                                         |
| <b>Accuracy / deviations</b>         |                  |                                                  |
| Correction factor                    |                  | glass: 0.4 / water: 1 / ceramics: 0.2 / PVC: 0.2 |
| Hysteresis                           | [% of Sr]        | 1...15                                           |
| Switch-point drift                   | [% of Sr]        | -15...15                                         |
| <b>Operating conditions</b>          |                  |                                                  |
| Ambient temperature                  | [°C]             | -25...80                                         |
| Protection                           |                  | IP 65                                            |
| <b>Tests / approvals</b>             |                  |                                                  |
| MTTF                                 | [years]          | 694                                              |
| <b>Mechanical data</b>               |                  |                                                  |
| Weight                               | [g]              | 110                                              |
| Housing                              |                  | Threaded type                                    |
| Mounting                             |                  | non-flush mountable                              |
| Dimensions                           | [mm]             | M30 x 1.5 / L = 81                               |
| Thread designation                   |                  | M30 x 1.5                                        |
| Material                             |                  | PBT                                              |
| <b>Displays / operating elements</b> |                  |                                                  |
| Display                              | Switching status | 1 x LED, red                                     |
| <b>Accessories</b>                   |                  |                                                  |
| Items supplied                       |                  | lock nuts: 2                                     |
|                                      |                  | screwdriver: 1                                   |
| <b>Remarks</b>                       |                  |                                                  |
| Pack quantity                        |                  | 1 pcs.                                           |

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### Electrical connection - plug

Cable: 0.1 m, PUR

Connector: 1 x M12; coding: A

