

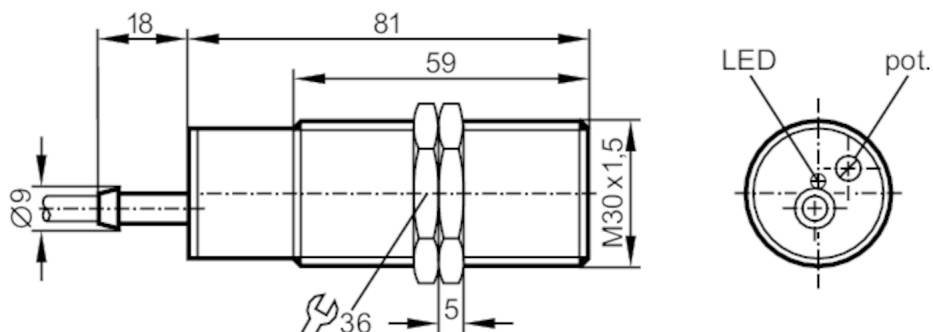
# KI5207



## Capacitive sensor

KI-3015-FPKG/NI

RT



### Electrical data

|                             |      |            |
|-----------------------------|------|------------|
| Operating voltage           | [V]  | 10...36 DC |
| Current consumption         | [mA] | 13; (24 V) |
| Protection class            |      | II         |
| Reverse polarity protection |      | yes        |

### Outputs

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

### Detection zone

|                               |      |                |
|-------------------------------|------|----------------|
| Sensing range                 | [mm] | 3...15         |
| Sensing range adjustable      |      | yes            |
| Factory setting sensing range | [mm] | 15             |
| Real sensing range $S_r$      | [mm] | $15 \pm 10 \%$ |
| Operating distance            | [mm] | 0...12.1       |

### Accuracy / deviations

|                    |               |                                                  |
|--------------------|---------------|--------------------------------------------------|
| Correction factor  |               | glass: 0.4 / water: 1 / ceramics: 0.2 / PVC: 0.2 |
| Hysteresis         | [% of $S_r$ ] | 1...15                                           |
| Switch point drift | [% of $S_r$ ] | -15...15                                         |

### Operating conditions

|                     |      |                                                                     |
|---------------------|------|---------------------------------------------------------------------|
| Ambient temperature | [°C] | -25...70                                                            |
| Protection          |      | IP 65                                                               |
| Increased immunity  |      | yes; (increased immunity to conducted radio frequency interference) |

### Tests / approvals

|      |         |              |
|------|---------|--------------|
| EMC  |         | EN 60947-5-2 |
| MTTF | [years] | 692          |

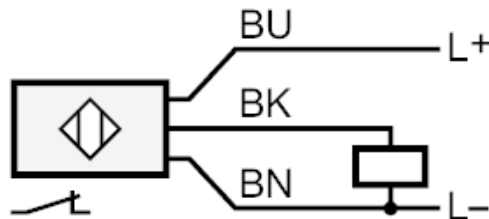
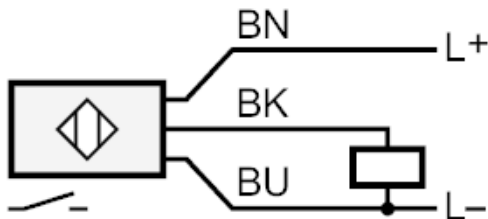
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## Capacitive sensor

KI-3015-FPKG/NI      RT

| Mechanical data               |                  |                     |
|-------------------------------|------------------|---------------------|
| Weight                        | [g]              | 179.2               |
| Housing                       |                  | threaded type       |
| Mounting                      |                  | non-flush mountable |
| Dimensions                    | [mm]             | M30 x 1.5 / L = 81  |
| Thread designation            |                  | M30 x 1.5           |
| Materials                     |                  | PBT                 |
| Displays / operating elements |                  |                     |
| Display                       | switching status | 1 x LED, red        |
| Accessories                   |                  |                     |
| Accessories (supplied)        | lock nuts: 2     |                     |
|                               | screwdriver: 1   |                     |
| Remarks                       |                  |                     |
| Pack quantity                 | 1 pcs.           |                     |
| Electrical connection         |                  |                     |
| Cable: 2 m, PVC; 3 x 0.5 mm²  |                  |                     |
| Connection                    |                  |                     |



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