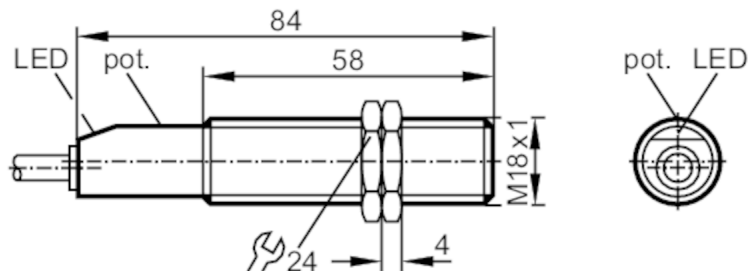


# KG5046

## Capacitive sensor

KG-3008-BNKG/NI



### Product characteristics

|                    |                  |
|--------------------|------------------|
| Electrical design  | NPN              |
| Output function    | normally closed  |
| Sensing range [mm] | 8                |
| Housing            | Threaded type    |
| Dimensions [mm]    | M18 x 1 / L = 84 |

### Electrical data

|                             |                                               |
|-----------------------------|-----------------------------------------------|
| Operating voltage [V]       | 10...36 DC; (cULus - Class 2 source required) |
| Current consumption [mA]    | < 10 (24 V DC) / < 15 (36 V DC)               |
| Protection class            | II                                            |
| Reverse polarity protection | yes                                           |

### Outputs

|                                                      |                 |
|------------------------------------------------------|-----------------|
| Electrical design                                    | NPN             |
| Output function                                      | normally closed |
| Max. voltage drop switching output DC [V]            | 2.5             |
| Permanent current rating of switching output DC [mA] | 250             |
| Switching frequency DC [Hz]                          | 50              |
| Short-circuit proof                                  | yes             |
| Overload protection                                  | yes             |

### Monitoring range

|                                    |          |
|------------------------------------|----------|
| Sensing range [mm]                 | 8        |
| Sensing range adjustable           | yes      |
| Factory setting sensing range [mm] | 8        |
| Real sensing range Sr [mm]         | 8 ± 10 % |
| Operating distance [mm]            | 0...6.5  |

### Accuracy / deviations

|                              |                                                  |
|------------------------------|--------------------------------------------------|
| 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                                         |

### Operating conditions

|                          |          |
|--------------------------|----------|
| Ambient temperature [°C] | -25...80 |
|--------------------------|----------|

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|            |       |
|------------|-------|
| Protection | IP 67 |
|------------|-------|

### Tests / approvals

|              |              |
|--------------|--------------|
| EMC          | EN 60947-5-2 |
| MTTF [years] | 671          |

### Mechanical data

|                    |                     |
|--------------------|---------------------|
| Weight [g]         | 125                 |
| Housing            | Threaded type       |
| Mounting           | non-flush mountable |
| Dimensions [mm]    | M18 x 1 / L = 84    |
| Thread designation | M18 x 1             |
| Material           | PBT                 |

### Displays / operating elements

|         |                  |                 |
|---------|------------------|-----------------|
| Display | Switching status | 1 x LED, yellow |
|---------|------------------|-----------------|

### Accessories

|                |              |
|----------------|--------------|
| Items supplied | lock nuts: 2 |
|----------------|--------------|

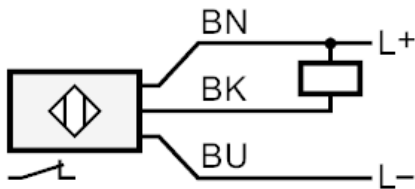
### Remarks

|               |        |
|---------------|--------|
| Pack quantity | 1 pcs. |
|---------------|--------|

### Electrical connection

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

### Connection



BN = Core colors : brown  
BU = blue  
BK = black