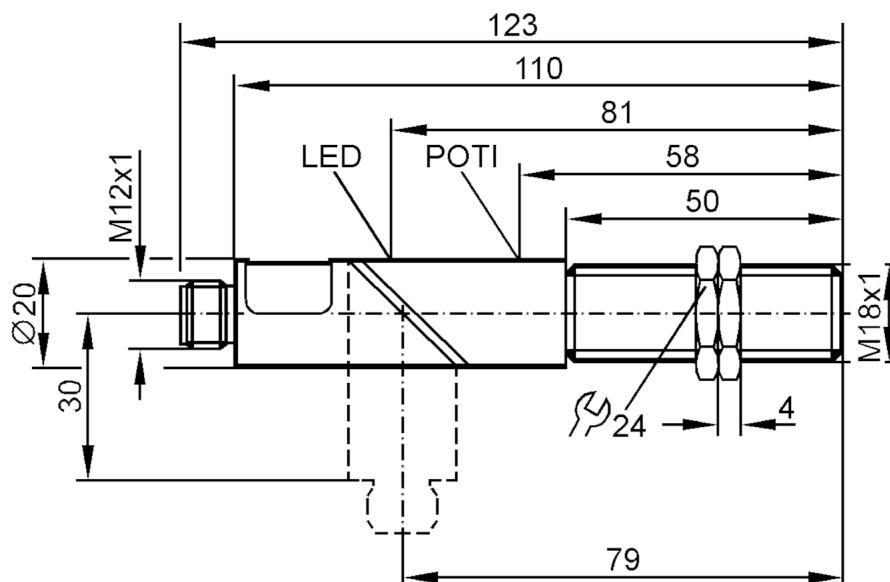


# KG8500

## Capacitive sensor

KGE2008FRKG/NI/US100IRF



### Product characteristics

|                    |                                      |
|--------------------|--------------------------------------|
| Electrical design  | PNP/NPN                              |
| Output function    | normally open / closed; (selectable) |
| Sensing range [mm] | 2.5...8                              |
| Housing            | Threaded type                        |
| Dimensions [mm]    | M18 x 1                              |

### Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...55 DC |
| Protection class            | II         |
| Reverse polarity protection | yes        |

### Outputs

|                                                      |                                      |
|------------------------------------------------------|--------------------------------------|
| Electrical design                                    | PNP/NPN                              |
| Output function                                      | normally open / closed; (selectable) |
| Max. voltage drop switching output DC [V]            | 4.6                                  |
| Minimum load current [mA]                            | 4                                    |
| Max. leakage current [mA]                            | 0.6                                  |
| Permanent current rating of switching output DC [mA] | 400                                  |
| Switching frequency DC [Hz]                          | 50                                   |
| Short-circuit proof                                  | yes                                  |
| Overload protection                                  | yes                                  |

### Monitoring range

|                                    |         |
|------------------------------------|---------|
| Sensing range [mm]                 | 2.5...8 |
| Sensing range adjustable           | yes     |
| Factory setting sensing range [mm] | 8       |

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|                       |      |          |
|-----------------------|------|----------|
| 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 |
| Protection          |      | IP 65    |

### Tests / approvals

|     |              |  |
|-----|--------------|--|
| EMC | EN 60947-5-2 |  |
|-----|--------------|--|

### Mechanical data

|                    |      |                     |
|--------------------|------|---------------------|
| Weight             | [g]  | 81.647              |
| Housing            |      | Threaded type       |
| Mounting           |      | non-flush mountable |
| Dimensions         | [mm] | M18 x 1             |
| Thread designation |      | M18 x 1             |
| Material           |      | PBT; end cap: PC    |

### Displays / operating elements

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

### Accessories

|                |                |
|----------------|----------------|
| Items supplied | lock nuts: 2   |
|                | screwdriver: 1 |

### Remarks

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

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### Electrical connection - plug

Connector: 1 x M12; coding: A

