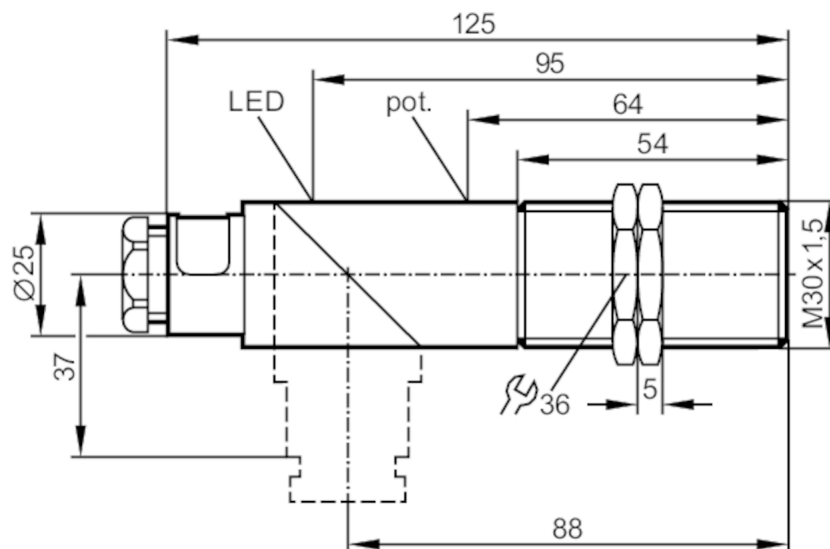




## Capacitive sensor

KIE3015-FPKG/NI/55V



## Product characteristics

|                    |                                      |
|--------------------|--------------------------------------|
| Electrical design  | PNP                                  |
| Output function    | normally open / closed; (selectable) |
| Sensing range [mm] | 15                                   |
| Housing            | Threaded type                        |
| Dimensions [mm]    | M30 x 1.5 / L = 125                  |

## Electrical data

|                             |                                               |
|-----------------------------|-----------------------------------------------|
| Operating voltage [V]       | 10...55 DC; (cULus - Class 2 source required) |
| Current consumption [mA]    | 14; (24 V)                                    |
| Protection class            | II                                            |
| Reverse polarity protection | yes                                           |

## Outputs

|                                                      |                                      |
|------------------------------------------------------|--------------------------------------|
| Electrical design                                    | PNP                                  |
| Output function                                      | normally open / 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                                  |

## Monitoring range

|                            |           |
|----------------------------|-----------|
| Sensing range [mm]         | 15        |
| Real sensing range Sr [mm] | 15 ± 10 % |
| Operating distance [mm]    | 0...12.1  |



## Capacitive sensor

KIE3015-FPKG/NI/55V

| 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...70                                                            |
| Protection                                                               |           |                                                  | IP 65                                                               |
| Increased immunity                                                       |           |                                                  | yes; (Increased immunity to conducted radio frequency interference) |
| Tests / approvals                                                        |           |                                                  |                                                                     |
| EMC                                                                      |           | EN 60947-5-2                                     |                                                                     |
| MTTF                                                                     |           | [years]                                          | 743                                                                 |
| Mechanical data                                                          |           |                                                  |                                                                     |
| Weight                                                                   |           | [g]                                              | 135                                                                 |
| Housing                                                                  |           |                                                  | Threaded type                                                       |
| Mounting                                                                 |           |                                                  | non-flush mountable                                                 |
| Dimensions                                                               |           | [mm]                                             | M30 x 1.5 / L = 125                                                 |
| Thread designation                                                       |           |                                                  | M30 x 1.5                                                           |
| Material                                                                 |           |                                                  | PBT; bevelled housing part: PC                                      |
| Displays / operating elements                                            |           |                                                  |                                                                     |
| Display                                                                  |           | Switching status                                 | 1 x LED, yellow                                                     |
| Accessories                                                              |           |                                                  |                                                                     |
| Items supplied                                                           |           |                                                  | lock nuts: 2                                                        |
| Remarks                                                                  |           |                                                  |                                                                     |
| Pack quantity                                                            |           |                                                  | 1 pcs.                                                              |
| Electrical connection                                                    |           |                                                  |                                                                     |
| terminals: ...2.5 mm²; Cable sheath: Ø 7...13 mm; Cable gland: M20 X 1.5 |           |                                                  |                                                                     |
| Connection                                                               |           |                                                  |                                                                     |

