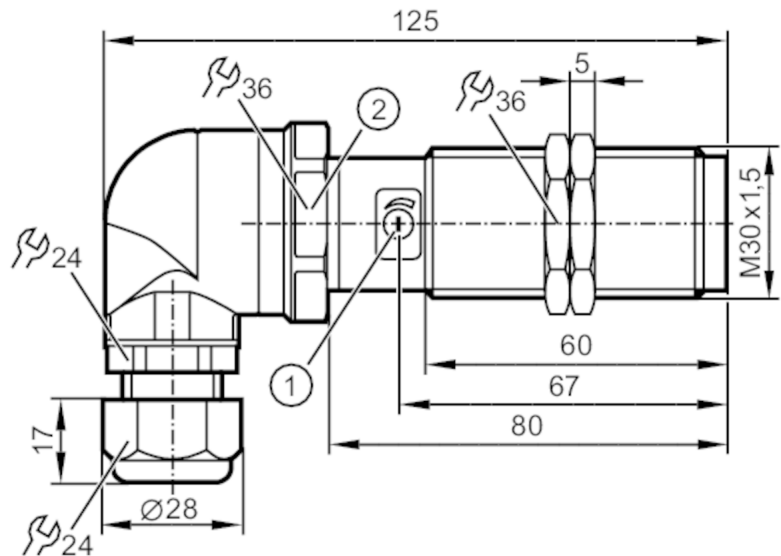


# KI505A



## Capacitive sensor

KIE4150NCPKG/3D



- 1 potentiometer  
2 Tightening torque 10 Nm



### Product characteristics

|                    |                     |
|--------------------|---------------------|
| Electrical design  | PNP                 |
| Output function    | complementary       |
| Sensing range [mm] | 15                  |
| Housing            | threaded type       |
| Dimensions [mm]    | M30 x 1.5 / L = 125 |

### Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...30 DC |
| Current consumption [mA]    | < 20       |
| Protection class            | III        |
| Reverse polarity protection | yes        |
| Measuring principle         | capacitive |

### Outputs

|                                                      |               |
|------------------------------------------------------|---------------|
| Electrical design                                    | PNP           |
| Output function                                      | complementary |
| Max. voltage drop switching output DC [V]            | 2.5           |
| Max. leakage current [mA]                            | 0.1           |
| Permanent current rating of switching output DC [mA] | 200           |
| Switching frequency DC [Hz]                          | 10            |
| Short-circuit proof                                  | yes           |
| Overload protection                                  | yes           |

### Detection zone

|                    |    |
|--------------------|----|
| Sensing range [mm] | 15 |
|--------------------|----|

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|                                    |                                                                                                               |                                |
|------------------------------------|---------------------------------------------------------------------------------------------------------------|--------------------------------|
| Sensing range adjustable           | yes                                                                                                           |                                |
| Factory setting sensing range [mm] | 15                                                                                                            |                                |
| Real sensing range Sr [mm]         | 15 ± 10 %                                                                                                     |                                |
| Accuracy / deviations              |                                                                                                               |                                |
| Hysteresis [X01]                   | 1...15                                                                                                        |                                |
| Switch point drift [X01]           | -20...20                                                                                                      |                                |
| Operating conditions               |                                                                                                               |                                |
| Ambient temperature [°C]           | -20...60                                                                                                      |                                |
| Protection                         | IP 65; IP 67                                                                                                  |                                |
| Tests / approvals                  |                                                                                                               |                                |
| ATEX marking                       |  II 3D Ex tc IIIC T90°C Dc X |                                |
| EMC                                | EN 61000-4-2 ESD                                                                                              | kV / 8 kV AD                   |
|                                    | EN 61000-4-3 HF radiated                                                                                      | 3 V/m                          |
|                                    | EN 61000-4-4 Burst                                                                                            | 2 kV                           |
|                                    | EN 61000-4-6 HF conducted                                                                                     | 3 V                            |
|                                    | EN 55011                                                                                                      | class B                        |
|                                    | IEC 60255-5                                                                                                   | 1 kV line to line, Ri: 500 Ohm |
| MTTF [ANN]                         | 463                                                                                                           |                                |
| Mechanical data                    |                                                                                                               |                                |
| Weight [g]                         | 155                                                                                                           |                                |
| Housing                            | threaded type                                                                                                 |                                |
| Mounting                           | non-flush mountable                                                                                           |                                |
| Dimensions [mm]                    | M30 x 1.5 / L = 125                                                                                           |                                |
| Thread designation                 | M30 x 1.5                                                                                                     |                                |
| Materials                          | PBT; PA                                                                                                       |                                |
| Displays / operating elements      |                                                                                                               |                                |
| Display                            | switching status                                                                                              | 1 x LED, yellow                |
| Аксессуары                         |                                                                                                               |                                |
| Items supplied                     | lock nuts: 2                                                                                                  |                                |
| Remarks                            |                                                                                                               |                                |
| Pack quantity                      | 1 pcs.                                                                                                        |                                |

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### Electrical connection

terminals: 0.34...1.5 mm<sup>2</sup>; Cable sheath: Ø 5...9 mm; Cable gland: M20 X 1.5

### Connection

