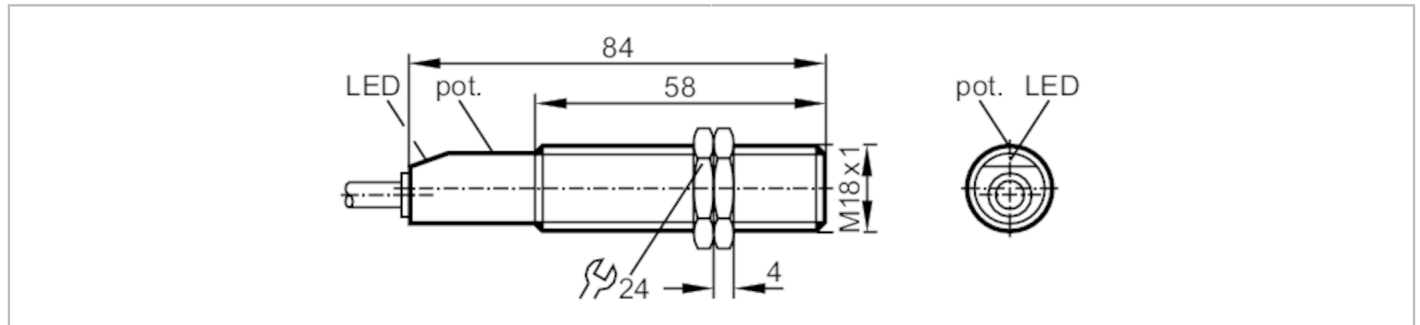


# KG5045



## Capacitive sensor

KG-3008-ANKG/NI



| Electrical data                                      |                                                  |
|------------------------------------------------------|--------------------------------------------------|
| Operating voltage [V]                                | 10...36 DC; ("supply class 2" according to UL)   |
| 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 open                                    |
| 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                                              |
| Detection zone                                       |                                                  |
| 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                                         |
| Protection                                           | IP 67                                            |
| Increased immunity                                   | yes                                              |
| Tests / approvals                                    |                                                  |
| EMC                                                  | EN 60947-5-2                                     |
| MTTF [years]                                         | 671                                              |

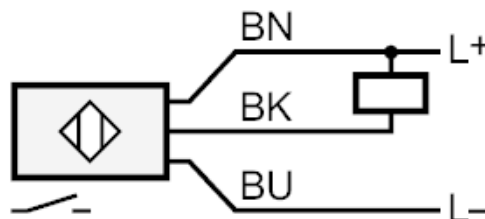
# KG5045



## Capacitive sensor

KG-3008-ANKG/NI

| Mechanical data                           |                  |                                |
|-------------------------------------------|------------------|--------------------------------|
| Weight                                    | [g]              | 123.5                          |
| Housing                                   |                  | threaded type                  |
| Mounting                                  |                  | non-flush mountable            |
| Dimensions                                | [mm]             | M18 x 1 / L = 84               |
| Thread designation                        |                  | M18 x 1                        |
| Materials                                 |                  | PBT                            |
| Displays / operating elements             |                  |                                |
| Display                                   | switching status | 1 x LED, yellow                |
| Accessories                               |                  |                                |
| Accessories (supplied)                    |                  | lock nuts: 2<br>screwdriver: 1 |
| Remarks                                   |                  |                                |
| Pack quantity                             |                  | 1 pcs.                         |
| Electrical connection                     |                  |                                |
| Cable: 2 m, PVC; 3 x 0.34 mm <sup>2</sup> |                  |                                |
| Connection                                |                  |                                |



Core colours :

BN = brown  
BU = blue  
BK = black