

## KB180120

### CAPACITIVE SENSORS • NORM SWITCHING DISTANCE

sensor capacitive, M18x1 84long, Flush, Sn: 0.5-10, 10-35V DC, PNP NO, Connector M12 3pin, IP67, Brass Nickel-plated, LED, Manual adjustment



#### MECHANICAL FEATURES

|  |                               |
|--|-------------------------------|
| Active area material of sensor           | Polytetrafluorethylene (PTFE) |
| Ambient temperature                      | -25 °C ... 70 °C              |
| Degree of protection (IP)                | IP67                          |
| Design                                   | Cylinder, screw-thread        |
| Housing coating                          | Nickel-plated                 |
| Housing material                         | Brass                         |
| Mechanical mounting condition for sensor | Flush                         |
| Pressure-proof                           | -                             |
| Sensor length                            | 84 mm                         |
| Thread length                            | 55 mm                         |
| Thread pitch                             | 1 mm                          |
| Thread size, metric                      | 18                            |

#### ELECTRICAL FEATURES

|  |                   |
|--|-------------------|
| Cascadable                               | -                 |
| Correction factor (glass)                | 0.6               |
| Correction factor (oil)                  | 0.5               |
| Correction factor (PVC)                  | 0.5               |
| Correction factor (wood)                 | 0.6               |
| Hysteresis                               | 15 %              |
| No-load current                          | 15 mA             |
| Number of pins                           | 3                 |
| Rated control supply voltage $U_s$ at DC | 10 V ... 35 V     |
| Rated switching current                  | 400 mA            |
| Reverse polarity protection              | +                 |
| Setting procedure                        | Manual adjustment |
| Short-circuit protection                 | +                 |
| Suitable for safety functions            | -                 |
| Supply voltage                           | 10 V ... 35 V     |
| Switching distance                       | 5 mm              |
| Switching distance                       | 0.5 mm ... 10 mm  |
| Switching frequency                      | 300 Hz            |
| Type of electrical connection            | Connector M12     |

## ELECTRICAL FEATURES

|  |                       |
|--|-----------------------|
| Type of switching function                     | Normally open contact |
| Type of switching output                       | PNP                   |
| Voltage drop                                   | 2 V                   |
| Voltage type                                   | DC                    |
| With LED display                               | +                     |
| With monitoring function of downstream devices | -                     |

## OTHER FEATURES

|                 |   |
|-----------------|---|
| Level detection | + |
|-----------------|---|

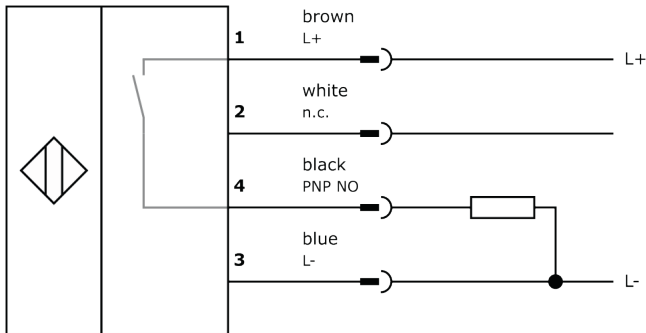
## Other

|                      |                           |
|----------------------|---------------------------|
| Packaging dimensions | 77.0mm x 25.0mm x 123.0mm |
| Shipping weight      | 0.09kg                    |
| Tariff code          | 85365019                  |

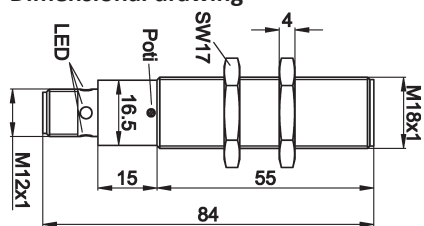
## Classification

|                   |          |
|-------------------|----------|
| ipf product group | 240      |
| eClass 8.0        | 27270102 |
| eClass 9.0        | 27270102 |
| eClass 9.1        | 27270102 |
| ETIM-5.0          | EC002715 |
| ETIM-6.0          | EC002715 |
| ETIM-7.0          | EC002715 |

## Connection



## Dimensional drawing



## Installation



Mounting / installation may only be carried out by a qualified electrician!

## Disposal



## Safety warnings

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information.

Never use these devices in applications where the safety of a person depends on their functionality.

LED lighting systems can generate intensive UV radiation, which can damage your eyes in case of improper use. The manufacturer cannot be held responsible for damages that result from improper use or connection.

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