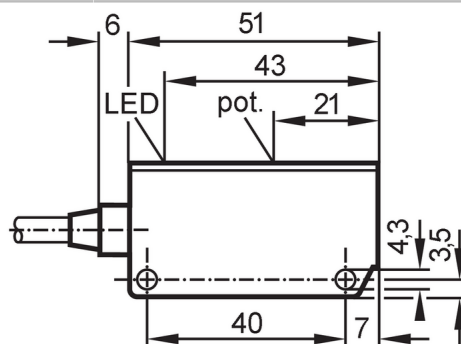
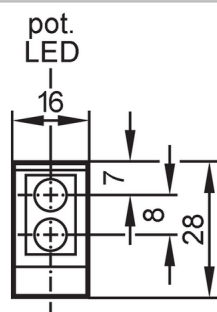




## Diffuse reflection sensor

OUT-DPKG



Receiver in upper lens  
transmitter in lower lens



## Product characteristics

|               |                |
|---------------|----------------|
| Type of light | Infrared light |
| Housing       | rectangular    |

## Application

|                    |                           |
|--------------------|---------------------------|
| Function principle | Diffuse reflection sensor |
| Application        | Industrial applications   |

## Electrical data

|                             |                |
|-----------------------------|----------------|
| Operating voltage [V]       | 10...55 DC     |
| Current consumption [mA]    | 35; ((24 V))   |
| Protection class            | II             |
| Reverse polarity protection | yes            |
| Type of light               | Infrared light |
| Wave length [nm]            | 880            |

## Outputs

|                                                      |                    |
|------------------------------------------------------|--------------------|
| Electrical design                                    | PNP                |
| Output function                                      | dark-on mode       |
| Max. voltage drop switching output DC [V]            | 2.5                |
| Permanent current rating of switching output DC [mA] | 250                |
| Switching frequency DC [Hz]                          | 160                |
| Short-circuit protection                             | yes                |
| Type of short-circuit protection                     | yes (non-latching) |
| Overload protection                                  | yes                |

## Monitoring range

|                                |                                     |
|--------------------------------|-------------------------------------|
| Range [mm]                     | 1...200; (white paper 200 x 200 mm) |
| Range adjustable               | yes                                 |
| Max. light spot diameter [mm]  | 180                                 |
| Light spot dimensions refer to | at maximum range                    |

## Operating conditions

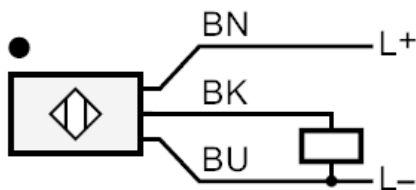
|                          |          |
|--------------------------|----------|
| Ambient temperature [°C] | -25...80 |
|--------------------------|----------|



Diffuse reflection sensor

OUT-DPKG

|                               |                          |                       |                 |
|-------------------------------|--------------------------|-----------------------|-----------------|
| Protection                    |                          | IP 67                 |                 |
| Tests / approvals             |                          |                       |                 |
| EMC                           |                          | EN 60947-5-2          |                 |
|                               |                          | EN 55011              | class B         |
| MTTF                          | [years]                  | 685                   |                 |
| Mechanical data               |                          |                       |                 |
| Weight                        | [g]                      | 152                   |                 |
| Housing                       |                          | rectangular           |                 |
| Dimensions                    | [mm]                     | 28 x 16 x 51          |                 |
| Number of channels            |                          | 1                     |                 |
| Material                      |                          | housing: PPO modified |                 |
| Lens material                 |                          | front lens:glass      |                 |
| Displays / operating elements |                          |                       |                 |
| Display                       | Switching status         |                       | 1 x LED, yellow |
| Accessories                   |                          |                       |                 |
| Items supplied                | Angle bracket: 1, E20211 |                       |                 |
| Remarks                       |                          |                       |                 |
| Pack quantity                 | 1 pcs.                   |                       |                 |
| Electrical connection         |                          |                       |                 |
| Cable: 2 m, PVC; 3 x 0.34 mm² |                          |                       |                 |
| Connection                    |                          |                       |                 |



|    |       |
|----|-------|
| BN | brown |
| BU | blue  |
| BK | black |



## Diffuse reflection sensor

OUT-DPKG

### Diagrams and graphs

excess gain graph

