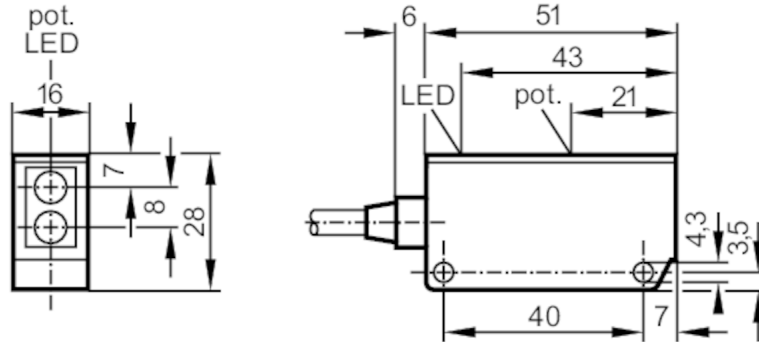


OU5010



Diffuse reflection sensor

OUT-HPKG



receiver in upper lens
transmitter in lower lens



Application

Function principle Diffuse reflection sensor

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 | light-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 | pulsed |
| Overload protection | yes |

Detection zone

| | |
|--------------------------------|-------------------------------------|
| 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 |
| Protection | IP 67 |

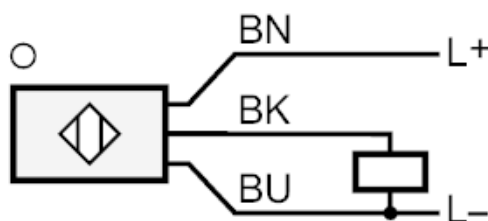
OU5010



Diffuse reflection sensor

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| Tests / approvals | | |
|-------------------------------------------|------------------|----------------------------|
| EMC | | EN 60947-5-2 |
| MTTF | [years] | 685 |
| Mechanical data | | |
| Weight | [g] | 149.4 |
| Housing | | rectangular |
| Dimensions | [mm] | 28 x 16 x 51 |
| Materials | | PPO modified |
| Lens material | | glass |
| Lens alignment | | side lens |
| Displays / operating elements | | |
| Display | switching status | 1 x LED, yellow |
| Accessories | | |
| Accessories (supplied) | | Angle bracket: 1 x, E20211 |
| Remarks | | |
| Pack quantity | | 1 pcs. |
| Electrical connection | | |
| Cable: 2 m, PVC; 3 x 0.34 mm ² | | |
| Connection | | |



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



Diffuse reflection sensor

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Diagrams and graphs

excess gain graph

