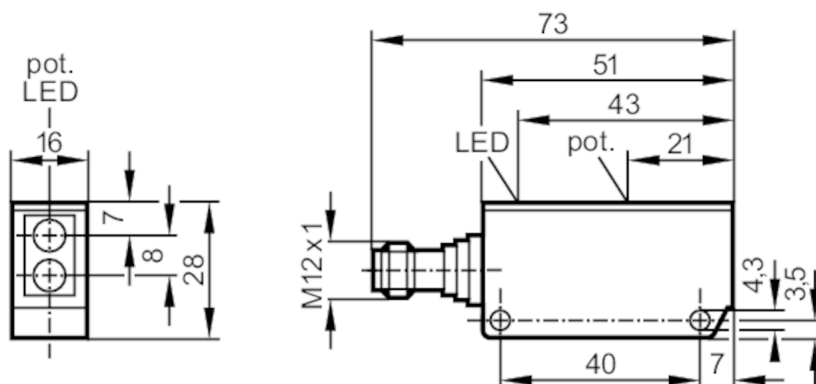




## Diffuse reflection sensor

OUT-HNKG/US-100-DNS

Article no longer available - archive entry



receiver in upper lens  
transmitter in lower lens

### Product characteristics

|               |                |
|---------------|----------------|
| Type of light | infrared light |
| Housing       | rectangular    |

### Application

|                    |                           |
|--------------------|---------------------------|
| Function principle | Diffuse reflection sensor |
|--------------------|---------------------------|

### Electrical data

|                             |      |                |
|-----------------------------|------|----------------|
| Operating voltage           | [V]  | 10...50 DC     |
| Current consumption         | [mA] | 35; ((24 V))   |
| Protection class            |      | III            |
| Reverse polarity protection |      | yes            |
| Type of light               |      | infrared light |
| Wave length                 | [nm] | 880            |

### Outputs

|                                                 |      |               |
|-------------------------------------------------|------|---------------|
| Electrical design                               |      | NPN           |
| 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                    |

# OU5055



## Diffuse reflection sensor

OUT-HNKG/US-100-DNS

### Operating conditions

|                     |      |          |
|---------------------|------|----------|
| Ambient temperature | [°C] | -25...80 |
| Protection          |      | IP 67    |

### Tests / approvals

|     |              |         |
|-----|--------------|---------|
| EMC | EN 60947-5-2 |         |
|     | EN 55011     | class B |

### Mechanical data

|               |      |              |
|---------------|------|--------------|
| Weight        | [g]  | 0.074        |
| Housing       |      | rectangular  |
| Dimensions    | [mm] | 28 x 16 x 51 |
| Materials     |      | PPO modified |
| Lens material |      | glass        |

### Displays / operating elements

|         |                  |                 |
|---------|------------------|-----------------|
| Display | switching status | 1 x LED, yellow |
|---------|------------------|-----------------|

### Accessories

|                |                          |
|----------------|--------------------------|
| Items supplied | Angle bracket: 1, E20211 |
|----------------|--------------------------|

### Remarks

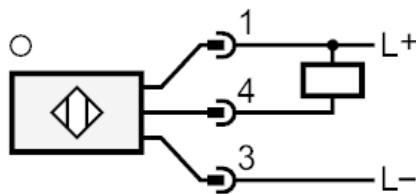
|               |        |
|---------------|--------|
| Pack quantity | 1 pcs. |
|---------------|--------|

### Electrical connection

Connector: 1 x M12; coding: A



### Connection





## Diffuse reflection sensor

OUT-HNKG/US-100-DNS

### Diagrams and graphs

excess gain graph

