

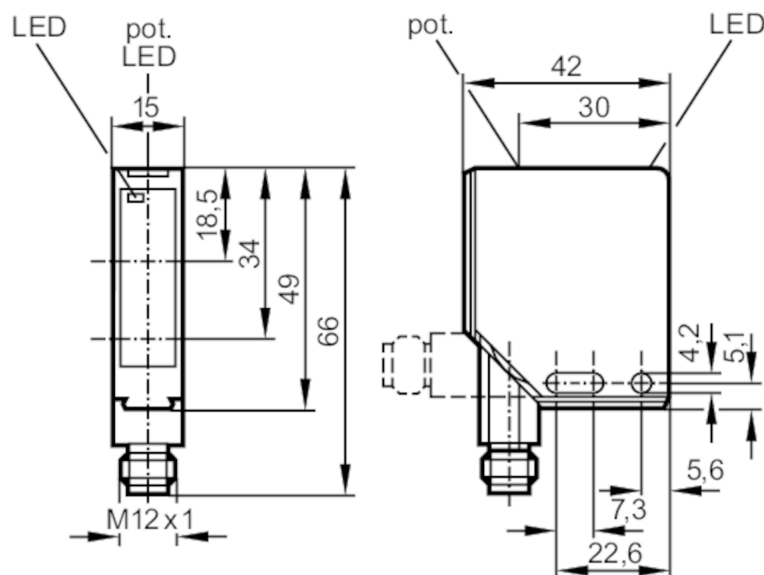
## Diffuse reflection sensor

OCV-CPKG/US-100

Article no longer available - archive entry

Alternative articles: O5H500

When selecting an alternative article and accessories please note that technical data may differ!



receiver in upper lens  
transmitter in lower lens

## Product characteristics

|               |             |
|---------------|-------------|
| Type of light | red light   |
| Housing       | rectangular |

## Application

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

## Electrical data

|                             |      |            |
|-----------------------------|------|------------|
| Operating voltage           | [V]  | 10...30 DC |
| Current consumption         | [mA] | < 30       |
| Protection class            |      | II         |
| Reverse polarity protection |      | yes        |
| Type of light               |      | red light  |
| Wave length                 | [nm] | 660        |

## Outputs

|                                                 |      |               |
|-------------------------------------------------|------|---------------|
| Electrical design                               |      | PNP           |
| Output function                                 |      | complementary |
| Max. voltage drop switching output DC           | [V]  | 2.9           |
| Permanent current rating of switching output DC | [mA] | 100           |
| Switching frequency DC                          | [Hz] | 1500          |
| Short-circuit protection                        |      | yes           |



## Diffuse reflection sensor

OCV-CPKG/US-100

|                                  |        |
|----------------------------------|--------|
| Type of short-circuit protection | pulsed |
| Overload protection              | yes    |

## Detection zone

|                                |                  |
|--------------------------------|------------------|
| Range [mm]                     | 35...100         |
| Range adjustable               | yes              |
| Max. light spot diameter [mm]  | 5                |
| Light spot dimensions refer to | at maximum range |

## Operating conditions

|                          |          |
|--------------------------|----------|
| Ambient temperature [°C] | -40...60 |
| Protection               | IP 67    |

## Tests / approvals

|     |              |
|-----|--------------|
| EMC | EN 60947-5-2 |
|-----|--------------|

## Mechanical data

|                 |              |
|-----------------|--------------|
| Housing         | rectangular  |
| Dimensions [mm] | 49 x 15 x 42 |
| Materials       | diecast zinc |
| Lens material   | PMMA         |

## Displays / operating elements

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

## Accessories

|                |              |
|----------------|--------------|
| Items supplied | screwdrivers |
|----------------|--------------|

## Remarks

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

## Electrical connection

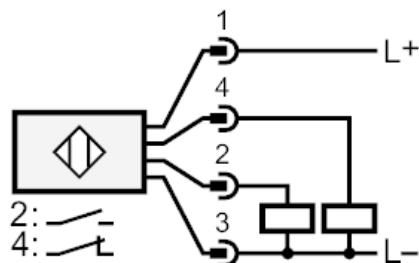
Connector: 1 x M12; coding: A



## Diffuse reflection sensor

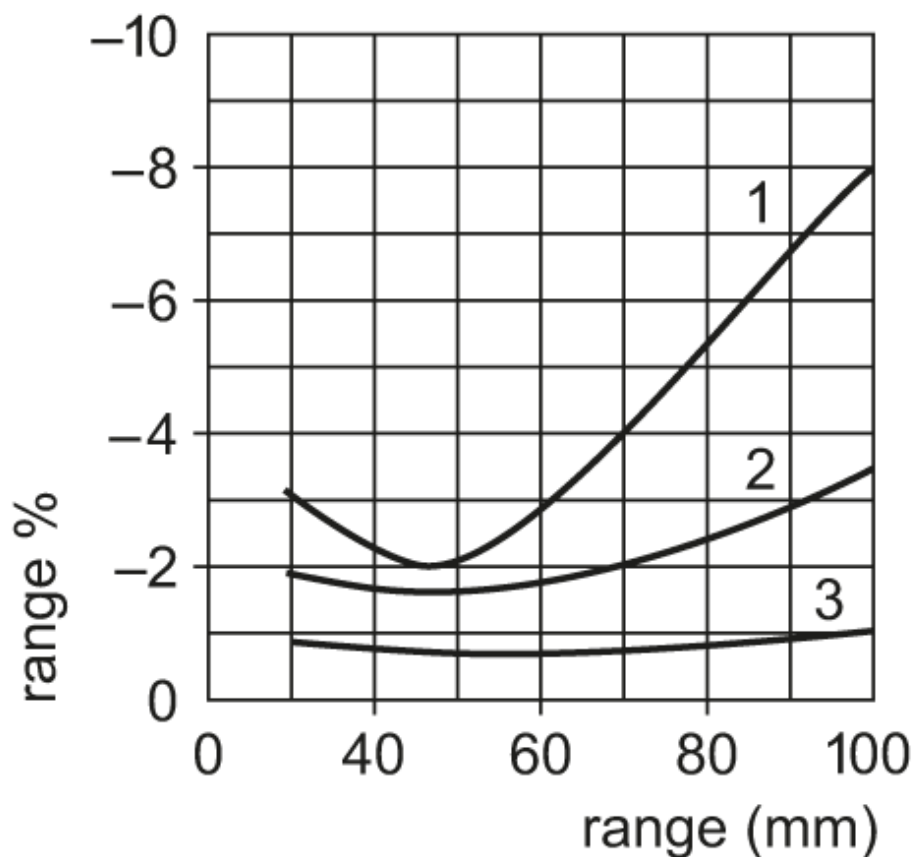
OCV-CPKG/US-100

### Connection



### Diagrams and graphs

accuracy graph



x: distance sensor/object [mm]

y: min. distance object/background [mm]

1 = object black (6 % remission) , background white (90 % remission)

2 = object grey (18 % remission) , background white (90 % remission)

3 = object white (90 % remission) , background white (90 % remission)

Note : range % = setting in % of the range