# OC5216

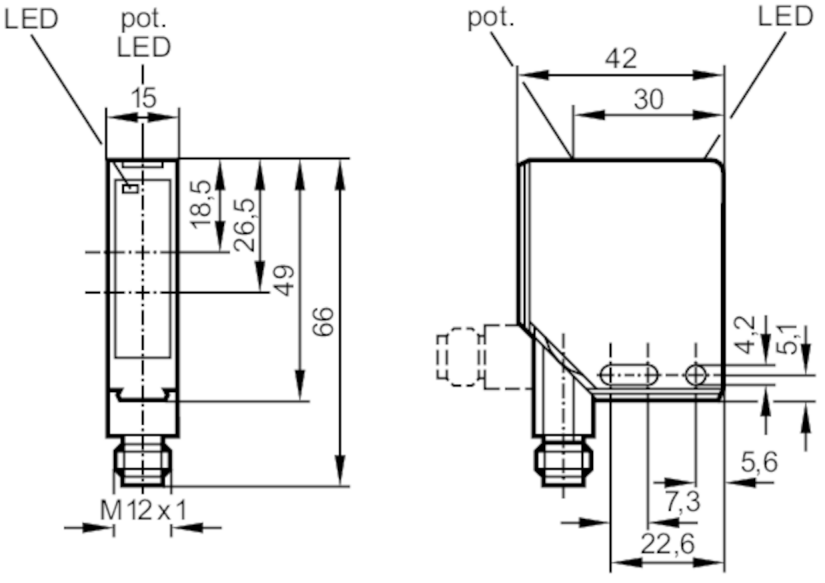
## Diffuse reflection sensor with background suppression

OCH-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 | | infrared light |
| Housing | | rectangular |
| **Application** | | |
| Special feature | | Background suppression |
| Function principle | | Diffuse reflection sensor |
| **Electrical data** | | |
| Operating voltage | [V] | 10...30 DC |
| Current consumption | [mA] | < 40 |
| Protection class | | II |
| Reverse polarity protection | | yes |
| Type of light | | infrared light |
| Wave length | [nm] | 880 |
| **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 |

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| | | | |
|---|---|---|---|
| Type of short-circuit protection | | pulsed | |
| Overload protection | | yes | |
| **Detection zone** | | | |
| Range | [mm] | 20...250 | |
| Range adjustable | | yes | |
| Max. light spot diameter | [mm] | 12.5 | |
| Light spot dimensions refer to | | at maximum range | |
| Background suppression available | | yes | |
| **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

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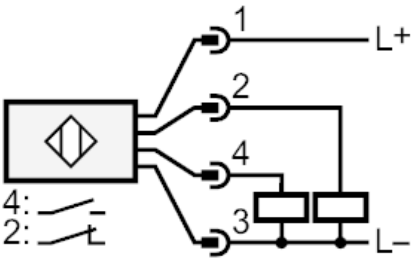
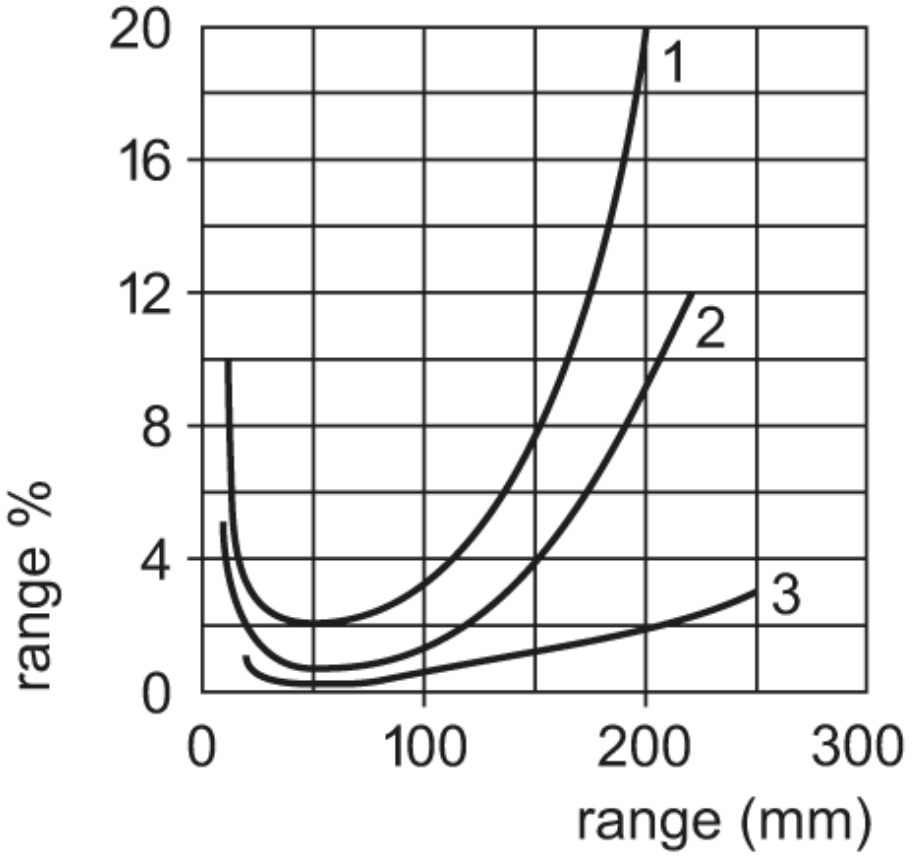
### Connection




### 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