



## Diffuse reflection sensor

OGT-FPKG/V4A/US-100

Article no longer available - archive entry

Alternative articles: OGT300

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



1 pushbutton

## Product characteristics

|               |                |
|---------------|----------------|
| Type of light | Infrared light |
| Housing       | Threaded type  |

## Application

|                    |                                             |
|--------------------|---------------------------------------------|
| System             | gold-plated contacts; Function check output |
| Function principle | Diffuse reflection sensor                   |

## Electrical data

|                             |      |                |
|-----------------------------|------|----------------|
| Operating voltage           | [V]  | 10...36 DC     |
| Current consumption         | [mA] | < 32           |
| Protection class            |      | II             |
| Reverse polarity protection |      | yes            |
| Type of light               |      | Infrared light |
| Wave length                 | [nm] | 880            |

## Outputs

|                                                 |      |                                       |
|-------------------------------------------------|------|---------------------------------------|
| Electrical design                               |      | PNP                                   |
| Output function                                 |      | light-on/dark-on mode; (configurable) |
| Max. voltage drop switching output DC           | [V]  | 2.5                                   |
| Function check output                           |      | yes                                   |
| Max. voltage drop of function check output      | [V]  | 3.5                                   |
| Max. current load for function check output     | [mA] | 10                                    |
| Permanent current rating of switching output DC | [mA] | 200                                   |
| Switching frequency DC                          | [Hz] | 500                                   |
| Short-circuit protection                        |      | yes                                   |
| Type of short-circuit protection                |      | yes (non-latching)                    |

# OG5114



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|                     |     |
|---------------------|-----|
| Overload protection | yes |
|---------------------|-----|

### Monitoring range

|                                |      |                                   |
|--------------------------------|------|-----------------------------------|
| Range                          | [mm] | < 600; (white paper 200 x 200 mm) |
| Range adjustable               |      | yes                               |
| Max. light spot diameter       | [mm] | 169                               |
| Light spot dimensions refer to |      | at maximum range                  |

### Operating conditions

|                     |      |               |
|---------------------|------|---------------|
| Ambient temperature | [°C] | -25...80      |
| Protection          |      | IP 68; IP 69K |

### Tests / approvals

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

### Mechanical data

|                    |      |                                      |
|--------------------|------|--------------------------------------|
| Housing            |      | Threaded type                        |
| Dimensions         | [mm] | M18 x 1 / L = 70.5                   |
| Thread designation |      | M18 x 1                              |
| Material           |      | stainless steel (1.4404 / 316L); PBT |
| Lens material      |      | PMMA                                 |

### Displays / operating elements

|         |                  |                 |
|---------|------------------|-----------------|
| Display | Switching status | 1 x LED, yellow |
|         | Power            | 1 x LED, green  |
|         | Function         | 1 x LED, red    |

### Accessories

|                |              |
|----------------|--------------|
| Items supplied | lock nuts: 2 |
|----------------|--------------|

### Remarks

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

### Electrical connection

Connector: 1 x M12; coding: A; Contacts: gold-plated





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## Connection



2 Function check output

## Diagrams and graphs

excess gain graph

