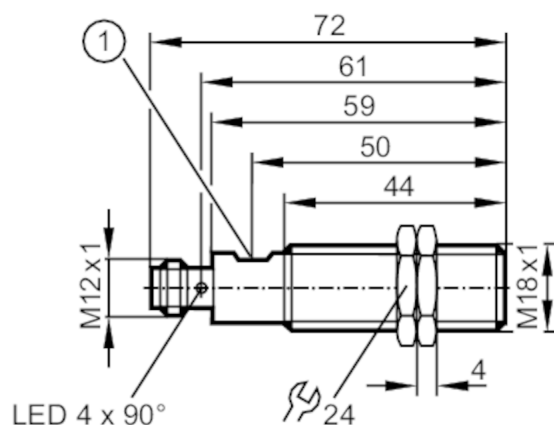


# OGT200



## Diffuse reflection sensor

OGT-HPKG/US100



1 potentiometer



### Application

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

### Electrical data

|                             |      |                                         |
|-----------------------------|------|-----------------------------------------|
| Operating voltage           | [V]  | 10...36 DC; ("supply class 2" to cULus) |
| Current consumption         | [mA] | 20                                      |
| Protection class            |      | II                                      |
| Reverse polarity protection |      | yes                                     |
| Type of light               |      | red light                               |
| Wave length                 | [nm] | 624                                     |

### 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] | 200           |
| Switching frequency DC                          | [Hz] | 800           |
| Short-circuit protection                        |      | yes           |
| Type of short-circuit protection                |      | pulsed        |
| Overload protection                             |      | yes           |

### Detection zone

|                                |      |                                                    |
|--------------------------------|------|----------------------------------------------------|
| Range                          | [mm] | 2...600; (white paper 200 x 200 mm 90 % remission) |
| Range adjustable               |      | yes                                                |
| Max. light spot diameter       | [mm] | 50                                                 |
| Light spot dimensions refer to |      | at maximum range                                   |
| Monitoring range final value   | [mm] | 150...600                                          |

### Operating conditions

|                     |      |          |
|---------------------|------|----------|
| Ambient temperature | [°C] | -25...60 |
| Protection          |      | IP 65    |



## Diffuse reflection sensor

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| Tests / approvals             |                                                                   |                  |
|-------------------------------|-------------------------------------------------------------------|------------------|
| EMC                           | EN 60947-5-2                                                      |                  |
| MTTF                          | [years]                                                           | 428              |
| Mechanical data               |                                                                   |                  |
| Weight                        | [g]                                                               | 54.4             |
| Housing                       | threaded type                                                     |                  |
| Dimensions                    | [mm]                                                              | M18 x 1 / L = 72 |
| Thread designation            | M18 x 1                                                           |                  |
| Materials                     | housing: stainless steel (1.4404 / 316L); operator interface: TPE |                  |
| Lens material                 | PMMA                                                              |                  |
| Displays / operating elements |                                                                   |                  |
| Display                       | switching status                                                  | 1 x LED, yellow  |
| Operating elements            | potentiometer                                                     |                  |
| Accessories                   |                                                                   |                  |
| Accessories (supplied)        | lock nuts: 2 x                                                    |                  |
| Remarks                       |                                                                   |                  |
| Pack quantity                 | 1 pcs.                                                            |                  |
| Electrical connection         |                                                                   |                  |

Connector: 1 x M12



## Connection

