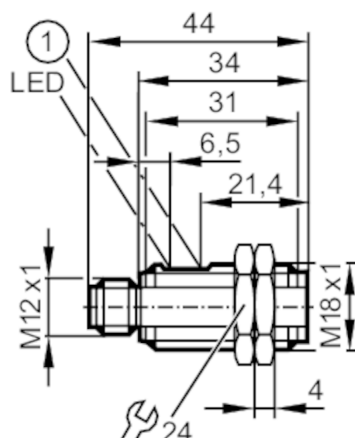


# OGT100



## Diffuse reflection sensor

OGT-HPKG/US



- 1 potentiometer  
Receiver in upper lens  
transmitter in lower lens



### Product characteristics

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

### Application

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

### Electrical data

|                             |      |            |
|-----------------------------|------|------------|
| Operating voltage           | [V]  | 10...30 DC |
| Current consumption         | [mA] | 20         |
| Protection class            |      | III        |
| Reverse polarity protection |      | yes        |
| Type of light               |      | red light  |
| Wave length                 | [nm] | 645        |

### 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] | 1000          |
| Short-circuit protection                        |      | yes           |
| Overload protection                             |      | yes           |

### Monitoring range

|                                |      |                                                     |
|--------------------------------|------|-----------------------------------------------------|
| Range                          | [mm] | 10...400; (white paper 200 x 200 mm 90 % remission) |
| Setting range                  | [mm] | 70...400                                            |
| Range adjustable               |      | yes                                                 |
| Max. light spot diameter       | [mm] | 25                                                  |
| Light spot dimensions refer to |      | at maximum range                                    |

# OGT100

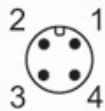


## Diffuse reflection sensor

OGT-HPKG/US

| Operating conditions          |                  |                                                        |
|-------------------------------|------------------|--------------------------------------------------------|
| Ambient temperature           | [°C]             | -25...60                                               |
| Protection                    |                  | IP 65; (in conjunction with a corresponding connector) |
| Tests / approvals             |                  |                                                        |
| EMC                           |                  | EN 60947-5-2                                           |
| MTTF                          | [years]          | 901                                                    |
| Mechanical data               |                  |                                                        |
| Weight                        | [g]              | 14.8                                                   |
| Housing                       |                  | Threaded type                                          |
| Dimensions                    | [mm]             | M18 x 1 / L = 44                                       |
| Thread designation            |                  | M18 x 1                                                |
| Material                      |                  | housing: ABS                                           |
| Lens material                 |                  | PMMA                                                   |
| Displays / operating elements |                  |                                                        |
| Display                       | Switching status | 1 x LED, yellow                                        |
| Operating elements            |                  | potentiometer                                          |
| Accessories                   |                  |                                                        |
| Items supplied                |                  | lock nuts: 2                                           |
| Remarks                       |                  |                                                        |
| Pack quantity                 |                  | 1 pcs.                                                 |
| Electrical connection         |                  |                                                        |

Connector: 1 x M12; coding: A



### Connection

