

# OGP300



## Retro-reflective sensor

OGP-DPKG/US100



### Product characteristics

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

### Application

|                    |                         |
|--------------------|-------------------------|
| Special feature    | polarisation filter     |
| Function principle | Retro-reflective sensor |

### Electrical data

|                             |      |            |
|-----------------------------|------|------------|
| Operating voltage           | [V]  | 10...36 DC |
| Current consumption         | [mA] | 15         |
| Protection class            |      | II         |
| Reverse polarity protection |      | yes        |
| Type of light               |      | red light  |
| Wave length                 | [nm] | 624        |

### Outputs

|                                                 |      |                       |
|-------------------------------------------------|------|-----------------------|
| Electrical design                               |      | PNP                   |
| Output function                                 |      | dark-on mode          |
| Max. voltage drop switching output DC           | [V]  | 2.5                   |
| Permanent current rating of switching output DC | [mA] | 150; (200 (...60 °C)) |
| Switching frequency DC                          | [Hz] | 1000                  |
| Short-circuit protection                        |      | yes                   |
| Type of short-circuit protection                |      | pulsed                |
| Overload protection                             |      | yes                   |

### Detection zone

|                                       |      |                                             |
|---------------------------------------|------|---------------------------------------------|
| Range referred to prismatic reflector | [m]  | 0.03...4; (Prismatic reflector Ø 80 E20005) |
| Range adjustable                      |      | no                                          |
| Max. light spot diameter              | [mm] | 160                                         |
| Light spot dimensions refer to        |      | at maximum range                            |

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|                               |     |
|-------------------------------|-----|
| Polarisation filter available | yes |
|-------------------------------|-----|

### Operating conditions

|                     |      |                             |
|---------------------|------|-----------------------------|
| Ambient temperature | [°C] | -25...80                    |
| Protection          |      | IP 65; IP 67; IP 68; IP 69K |

### Tests / approvals

|      |         |              |
|------|---------|--------------|
| EMC  |         | EN 60947-5-2 |
| MTTF | [years] | 509          |

### Mechanical data

|                    |      |                                                       |
|--------------------|------|-------------------------------------------------------|
| Weight             | [g]  | 55                                                    |
| Housing            |      | threaded type                                         |
| Dimensions         | [mm] | M18 x 1 / L = 60                                      |
| Thread designation |      | M18 x 1                                               |
| Materials          |      | housing: stainless steel (316L/1.4404); Sealing: EPDM |
| Lens material      |      | PMMA                                                  |

### Displays / operating elements

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

### Accessories

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

### Remarks

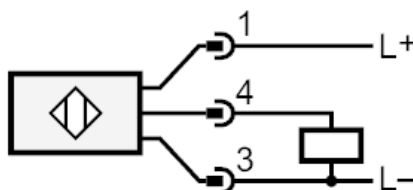
|               |  |                                                       |
|---------------|--|-------------------------------------------------------|
| Remarks       |  | operating voltage "supply class 2" according to cULus |
| Pack quantity |  | 1 pcs.                                                |

### Electrical connection

Connector: 1 x M12; coding: A



### Connection



### Diagrams and graphs

excess gain graph

