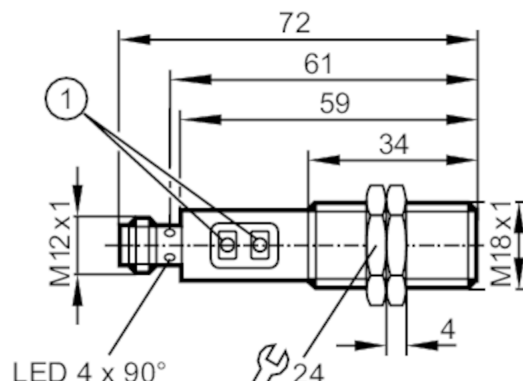


## Retro-reflective sensor

OGP-FPKG/US100



1 programming buttons



### 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] | 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/dark-on mode; (programmable) |
| 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] | 2000                                  |
| Short-circuit protection                        |      | yes                                   |
| Type of short-circuit protection                |      | pulsed                                |
| Overload protection                             |      | yes                                   |

### Detection zone

|                                       |     |                                             |
|---------------------------------------|-----|---------------------------------------------|
| Range referred to prismatic reflector | [m] | 0.03...5; (Prismatic reflector Ø 80 E20005) |
| Factory setting                       |     | light-on mode                               |
| Range adjustable                      |     | yes                                         |



## Retro-reflective sensor

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|                                |      |                  |
|--------------------------------|------|------------------|
| Max. light spot diameter       | [mm] | 200              |
| Light spot dimensions refer to |      | at maximum range |
| Polarisation filter available  |      | yes              |

### Operating conditions

|                     |      |          |
|---------------------|------|----------|
| Ambient temperature | [°C] | -25...80 |
| Protection          |      | IP 67    |

### Tests / approvals

|      |         |              |
|------|---------|--------------|
| EMC  |         | EN 60947-5-2 |
| MTTF | [years] | 431          |

### Mechanical data

|                    |      |                                                   |
|--------------------|------|---------------------------------------------------|
| Weight             | [g]  | 51.7                                              |
| Housing            |      | threaded type                                     |
| Dimensions         | [mm] | M18 x 1 / L = 72                                  |
| Thread designation |      | M18 x 1                                           |
| Materials          |      | stainless steel (316L/1.4404); PA; LCP; EPDM; TPU |
| 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

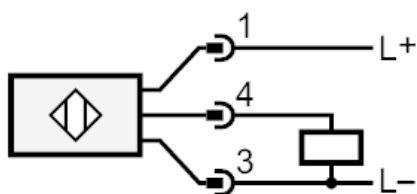
Connector: 1 x M12; coding: A



## Retro-reflective sensor

OGP-FPKG/US100

### Connection



### Diagrams and graphs

excess gain graph

