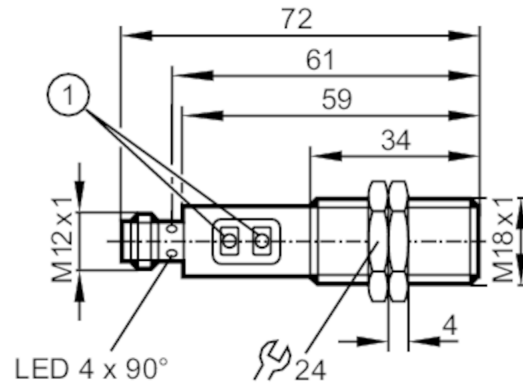


# OGP501



## Retro-reflective sensor

OGP-FPKG/US100



1 programming buttons



### Product characteristics

|                 |                  |
|-----------------|------------------|
| Type of light   | red light        |
| Housing         | threaded type    |
| Dimensions [mm] | M18 x 1 / L = 72 |

### 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

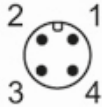
|  |                                       |
|--|---------------------------------------|
| Electrical design                                    | PNP                                   |
| Output function                                      | light-on/dark-on mode; (programmable) |
| Max. voltage drop 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                                   |

# OGP501



## Retro-reflective sensor

OGP-FPKG/US100

| Detection zone  |   |
|---|---|
| Range referred to prismatic reflector [m]   | 0.03...5; (Prismatic reflector Ø 80 E20005)           |
| Factory setting   | light-on mode   |
| Range adjustable  | yes   |
| 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]  | 61.9  |
| Housing   | threaded type   |
| Dimensions [mm]   | M18 x 1 / L = 72                                      |
| Thread designation  | M18 x 1   |
| Materials   | stainless steel (1.4404 / 316L); PA; LCP; EPDM; TPU   |
| Lens material   | PMMA  |
| Displays / operating elements   |   |
| Display   | switching status<br>1 x LED, yellow                   |
| Accessories   |   |
| Accessories (supplied)  | lock nuts: 2 x  |
| Remarks   |   |
| Remarks   | operating voltage "supply class 2" according to cULus |
| Pack quantity   | 1 pcs.  |
| Electrical connection   |   |
| Connector: 1 x M12  |   |
|  |   |

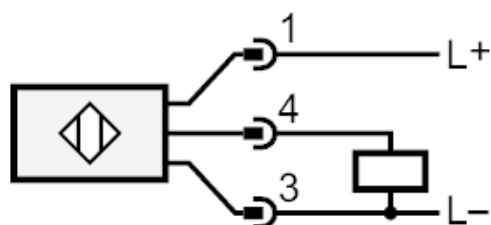
# OGP501



## Retro-reflective sensor

OGP-FPKG/US100

### Connection



### Diagrams and graphs

excess gain graph

