

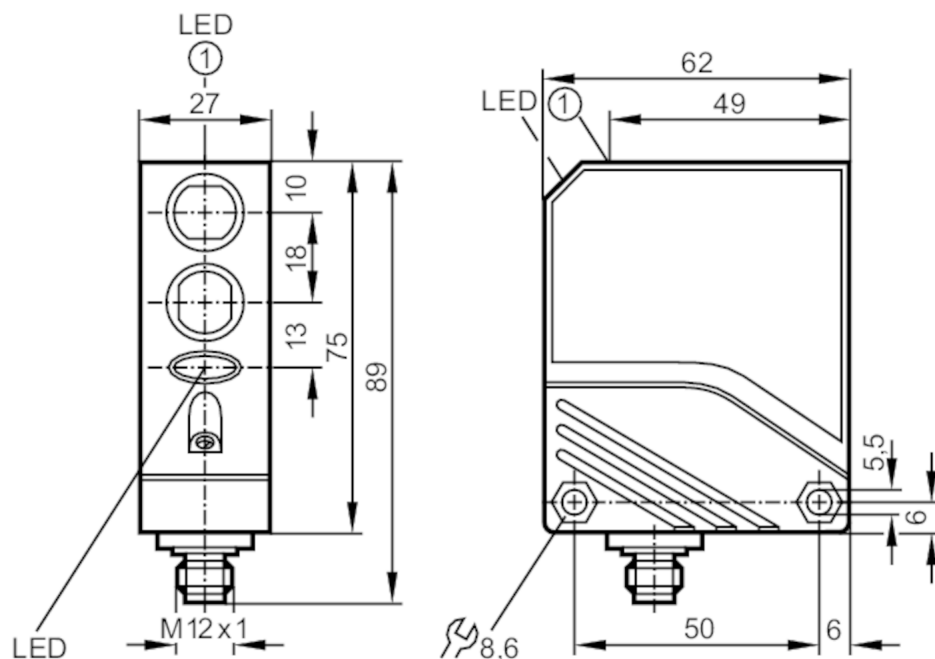
## Retro-reflective sensor

OLP-FPKG/US-100

Article no longer available - archive entry

Alternative articles: O5P500 + E21122

When selecting an alternative article and accessories please note that technical data may differ!



1 pushbutton

### Product characteristics

|               |             |
|---------------|-------------|
| Type of light | red light   |
| Housing       | rectangular |

### Application

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

### Electrical data

|                             |      |            |
|-----------------------------|------|------------|
| Operating voltage           | [V]  | 10...36 DC |
| Current consumption         | [mA] | < 37       |
| Protection class            |      | II         |
| Reverse polarity protection |      | yes        |
| Type of light               |      | red light  |
| Wave length                 | [nm] | 660        |

### Outputs

|                                            |     |                                          |
|--------------------------------------------|-----|------------------------------------------|
| Electrical design                          |     | PNP                                      |
| Output function                            |     | light-on/dark-on mode; (parameterisable) |
| Max. voltage drop switching output DC      | [V] | 2.5                                      |
| Max. voltage drop of function check output | [V] | 3.5                                      |



## Retro-reflective sensor

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|                                                      |                       |
|------------------------------------------------------|-----------------------|
| Max. current load for function check output [mA]     | 10                    |
| Permanent current rating of switching output DC [mA] | 100; (200 (...50 °C)) |
| Switching frequency DC [Hz]                          | 500                   |
| Short-circuit protection                             | yes                   |
| Type of short-circuit protection                     | pulsed                |
| Overload protection                                  | yes                   |

| Detection zone                            |                                            |
|-------------------------------------------|--------------------------------------------|
| Range [m]                                 | 0.3...5; (Prismatic reflector Ø 80 E20005) |
| Range referred to prismatic reflector [m] | 0.3...5; (Prismatic reflector Ø 80 E20005) |
| Range adjustable                          | yes                                        |
| Max. light spot diameter [mm]             | 250                                        |
| 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 |         |
|                   | EN 55011     | class B |

| Mechanical data |              |
|-----------------|--------------|
| Housing         | rectangular  |
| Dimensions [mm] | 75 x 27 x 62 |
| Materials       | PA; PBT      |
| Lens material   | PMMA         |

| Displays / operating elements |                  |                 |
|-------------------------------|------------------|-----------------|
| Display                       | switching status | 1 x LED, yellow |
|                               | operation        | 1 x LED, green  |
|                               | function         | 1 x LED, red    |

| Remarks       |        |
|---------------|--------|
| Pack quantity | 1 pcs. |

## Electrical connection

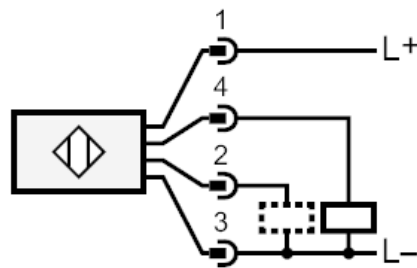
Connector: 1 x M12; coding: A



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### Connection



2 Function check output

### Diagrams and graphs

excess gain graph

