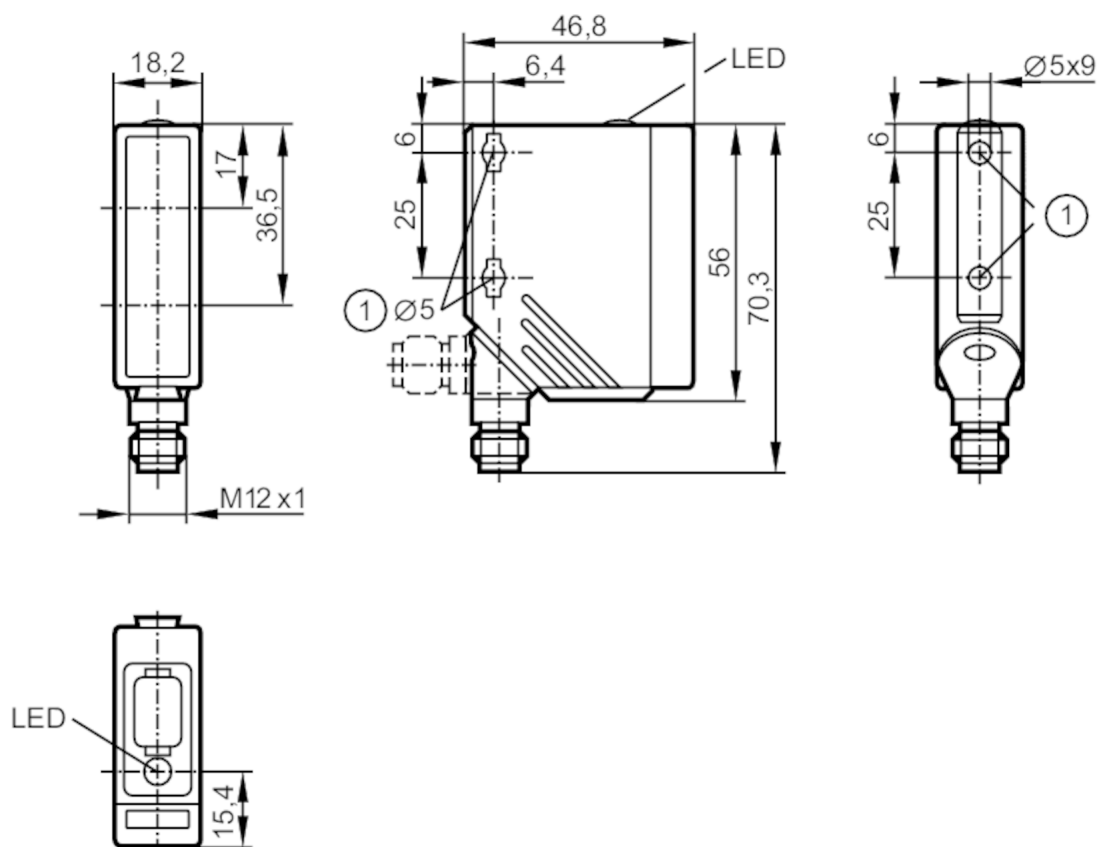


# O5P200



## Retro-reflective sensor

O5P-DPKG/US100



- 1 When a M5 mounting screw is used, the max. tightening torque is 2 Nm.  
Receiver in upper lens  
transmitter in lower lens



### Product characteristics

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

### Application

|                    |                         |
|--------------------|-------------------------|
| System             | polarization 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   | dark-on mode |

# O5P200



## Retro-reflective sensor

O5P-DPKG/US100

|                                                 |      |                    |
|-------------------------------------------------|------|--------------------|
| 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                |
| Type of short-circuit protection                |      | yes (non-latching) |
| Overload protection                             |      | yes                |

### Monitoring range

|                                       |      |                                            |
|---------------------------------------|------|--------------------------------------------|
| Range referred to prismatic reflector | [m]  | 0.1...7; (Prismatic reflector Ø 80 E20005) |
| Range adjustable                      |      | no                                         |
| Max. light spot diameter              | [mm] | 175                                        |
| Light spot dimensions refer to        |      | at maximum range                           |
| Polarization filter available         |      | yes                                        |

### Operating conditions

|                     |      |          |
|---------------------|------|----------|
| Ambient temperature | [°C] | -25...60 |
| Protection          |      | IP 67    |

### Tests / approvals

|      |         |              |
|------|---------|--------------|
| EMC  |         | EN 60947-5-2 |
| MTTF | [years] | 502          |

### Mechanical data

|                |      |                                                                        |
|----------------|------|------------------------------------------------------------------------|
| Weight         | [g]  | 62                                                                     |
| Housing        |      | rectangular                                                            |
| Dimensions     | [mm] | 56 x 18.2 x 46.8                                                       |
| Material       |      | housing: PA; Front framework: stainless steel; operator interface: TPE |
| Lens material  |      | PMMA                                                                   |
| Lens alignment |      | Side sensing                                                           |

### Displays / operating elements

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

### Remarks

|               |                                 |
|---------------|---------------------------------|
| Remarks       | cULus - Class 2 source required |
| Pack quantity | 1 pcs.                          |

### Electrical connection

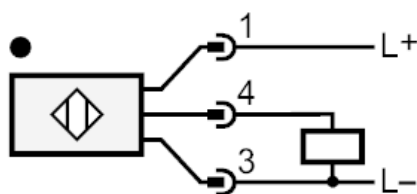
Connector: 1 x M12; coding: A



## Retro-reflective sensor

O5P-DPKG/US100

### Connection



### Diagrams and graphs

excess gain graph

