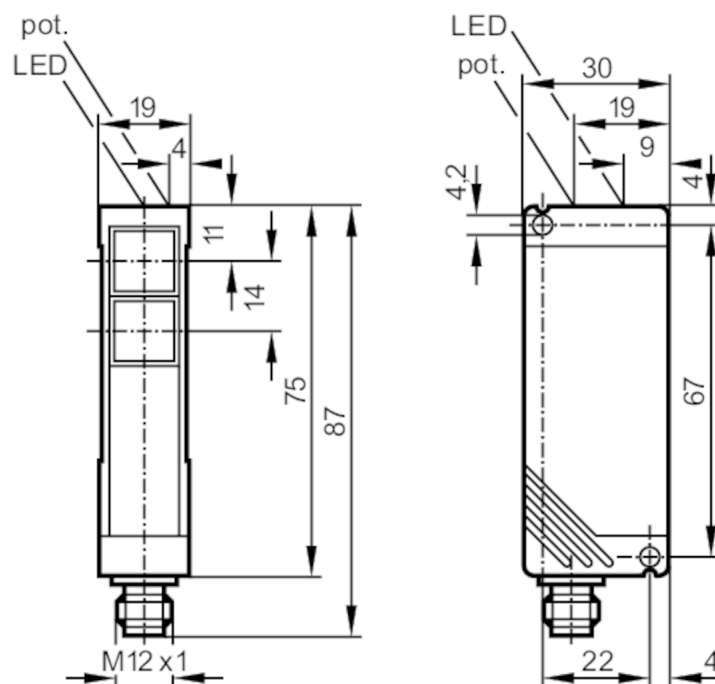


## Retro-reflective sensor

OTP-FPKG/US-100-IPF



Receiver in lower lens  
Transmitter in upper 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...50 DC   |
| Current consumption         | [mA] | 35; ((24 V)) |
| 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; (programmable) |
| Max. voltage drop switching output DC           | [V]  | 2.5                                   |
| Permanent current rating of switching output DC | [mA] | 250                                   |
| Switching frequency DC                          | [Hz] | 150                                   |
| Short-circuit protection                        |      | yes                                   |

# OT5017



## Retro-reflective sensor

OTP-FPKG/US-100-IPF

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

### Monitoring range

|                                           |                                            |
|-------------------------------------------|--------------------------------------------|
| Range referred to prismatic reflector [m] | 0.2...2; (Prismatic reflector Ø 80 E20005) |
| Range adjustable                          | yes                                        |
| Max. light spot diameter [mm]             | 280                                        |
| Light spot dimensions refer to            | at maximum range                           |
| Polarization filter available             | yes                                        |

### Operating conditions

|                          |          |
|--------------------------|----------|
| Ambient temperature [°C] | -25...60 |
| Protection               | IP 65    |

### Tests / approvals

|              |              |         |
|--------------|--------------|---------|
| EMC          | EN 60947-5-2 |         |
|              | EN 55011     | class B |
| MTTF [years] | 585          |         |

### Mechanical data

|                 |              |
|-----------------|--------------|
| Weight [g]      | 162.5        |
| Housing         | rectangular  |
| Dimensions [mm] | 75 x 19 x 30 |
| Material        | PBT          |
| Lens material   | PMMA         |
| Lens alignment  | Side sensing |

### Displays / operating elements

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

### Accessories

|                |                                          |
|----------------|------------------------------------------|
| Items supplied | Angle bracket: 1, E20461<br>screwdrivers |
|----------------|------------------------------------------|

### Remarks

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

### Electrical connection

Connector: 1 x M12; coding: A

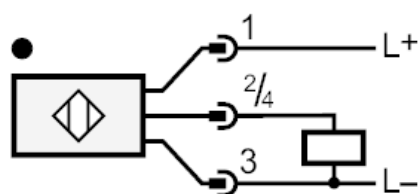
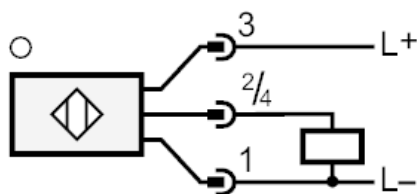




## Retro-reflective sensor

OTP-FPKG/US-100-IPF

### Connection



### Diagrams and graphs

excess gain graph

