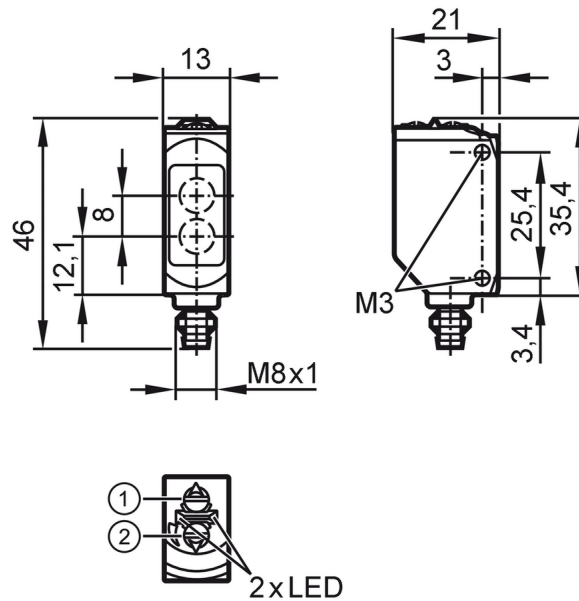


# O6T203



## Diffuse reflection sensor

O6T-FPKG/ASJ4P



- 1: output function switch
  - 2: potentiometer sensitivity
- Receiver in upper lens  
transmitter in lower lens



### Product characteristics

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

### Application

|                    |                           |
|--------------------|---------------------------|
| Function principle | Diffuse reflection sensor |
| Application        | Industrial applications   |

### Electrical data

|                             |      |              |
|-----------------------------|------|--------------|
| Operating voltage           | [V]  | 10...30 DC   |
| Current consumption         | [mA] | 16; ((24 V)) |
| Protection class            |      | III          |
| Reverse polarity protection |      | yes          |
| Type of light               |      | red light    |
| Wave length                 | [nm] | 633          |

### Outputs

|   |      |                                     |
|---|------|-------------------------------------|
| Electrical design                               |      | PNP                                 |
| Output function                                 |      | light-on/dark-on mode; (selectable) |
| Max. voltage drop switching output DC           | [V]  | 2.5                                 |
| Permanent current rating of switching output DC | [mA] | 100                                 |
| Switching frequency DC                          | [Hz] | 1000                                |
| Short-circuit protection                        |      | yes                                 |
| Type of short-circuit protection                |      | yes (non-latching)                  |

# O6T203



## Diffuse reflection sensor

O6T-FPKG/AS/4P

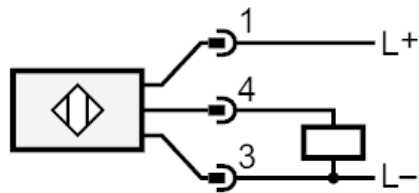
| Monitoring range   |                    |  |
|--|--------------------|--|
| Range  | [mm]               | 5...500; (white paper 200 x 200 mm 90 % remission)         |
| Setting range  | [mm]               | 100...500  |
| Range adjustable   |                    | yes  |
| Max. light spot diameter   | [mm]               | 15   |
| Light spot dimensions refer to   |                    | at maximum range   |
| Operating conditions   |                    |  |
| Ambient temperature  | [°C]               | -25...60   |
| Protection   |                    | IP 65; IP 67   |
| Tests / approvals  |                    |  |
| EMC  |                    | EN 60947-5-2   |
| MTTF   | [years]            | 897  |
| UL approval  | Ta                 | -25...40 °C  |
|  | Enclosure type     | Type 1   |
|  | voltage supply     | Class 2  |
|  | UL approval number | E001   |
| Mechanical data  |                    |  |
| Weight   | [g]                | 18.4   |
| Housing  |                    | rectangular  |
| Dimensions   | [mm]               | 46 x 13 x 21   |
| Material   |                    | housing: ABS orange; upper part of the housing: PPSU black |
| Lens material  |                    | front lens:PMMA  |
| Lens alignment   |                    | Side sensing   |
| Sealing material   |                    | EPDM   |
| Tightening torque  | [Nm]               | 0.5  |
| Displays / operating elements  |                    |  |
| Display  | Switching status   | 1 x LED, yellow  |
|  | Power              | 1 x LED, green   |
| Remarks  |                    |  |
| Remarks  |                    | cULus - Class 2 source required                            |
| Pack quantity  |                    | 1 pcs.   |
| Electrical connection  |                    |  |
| Connector: 1 x M8; coding: A; Contacts: 4; Locking: brass, coated; sealing: EPDM |                    |  |
|  |                    |  |



## Diffuse reflection sensor

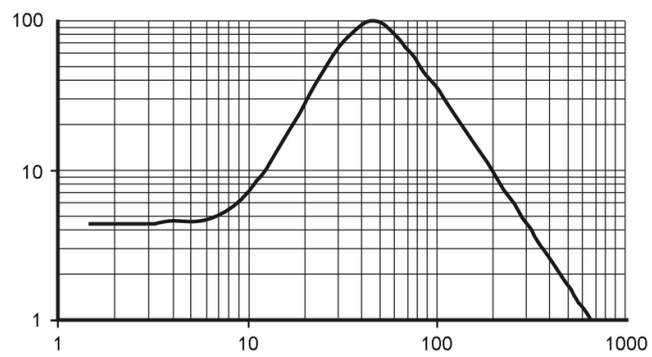
O6T-FPKG/AS/4P

### Connection



### Diagrams and graphs

excess gain graph



x: distance [mm]

y: excess gain factor