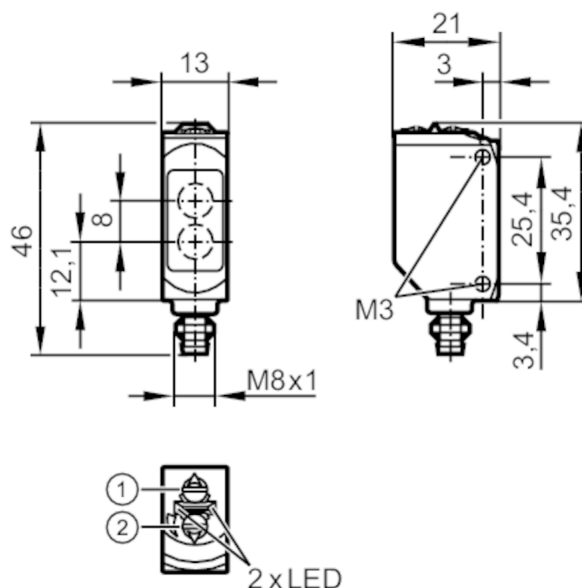


# O6T215



## Diffuse reflection sensor

O6TIFPKG/AS/4P



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



### Application

Function principle Diffuse reflection sensor

### Electrical data

|                             |                |
|-----------------------------|----------------|
| Operating voltage [V]       | 10...30 DC     |
| Current consumption [mA]    | 16; ((24 V))   |
| Protection class            | III            |
| Reverse polarity protection | yes            |
| Type of light               | infrared light |
| Wave length [nm]            | 850            |

### 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                     | pulsed                              |



## Diffuse reflection sensor

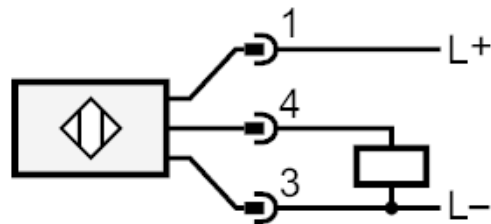
O6TIFPKG/AS/4P

| Detection zone                            |                  |                                                                   |
|-------------------------------------------|------------------|-------------------------------------------------------------------|
| Range                                     | [mm]             | 5...600; (white paper 200 x 200 mm 90 % remission)                |
| Range adjustable                          |                  | yes                                                               |
| Max. light spot diameter                  | [mm]             | 24                                                                |
| Light spot dimensions refer to            |                  | at maximum range                                                  |
| Monitoring range final value              | [mm]             | 100...600                                                         |
| Operating conditions                      |                  |                                                                   |
| Ambient temperature                       | [°C]             | -25...60                                                          |
| Protection                                |                  | IP 65; IP 67                                                      |
| Tests / approvals                         |                  |                                                                   |
| EMC                                       |                  | EN 60947-5-2                                                      |
| MTTF                                      | [years]          | 898                                                               |
| UL approval                               |                  | UL Approval no. E001                                              |
| Mechanical data                           |                  |                                                                   |
| Weight                                    | [g]              | 18.1                                                              |
| Housing                                   |                  | rectangular                                                       |
| Dimensions                                | [mm]             | 46 x 13 x 21                                                      |
| Materials                                 |                  | housing: ABS; PPSU; connector thread: brass coated; Sealing: EPDM |
| Lens material                             |                  | PMMA                                                              |
| Lens alignment                            |                  | side lens                                                         |
| Material nut                              |                  | brass                                                             |
| Tightening torque                         | [Nm]             | 0.5                                                               |
| Displays / operating elements             |                  |                                                                   |
| Display                                   | switching status | 1 x LED, yellow                                                   |
|                                           | operation        | 1 x LED, green                                                    |
| Remarks                                   |                  |                                                                   |
| Remarks                                   |                  | operating voltage "supply class 2" according to cULus             |
| Pack quantity                             |                  | 1 pcs.                                                            |
| Electrical connection                     |                  |                                                                   |
| Connector: 1 x M8; Locking: brass, coated |                  |                                                                   |
|                                           |                  |                                                                   |

## Diffuse reflection sensor

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### Connection



### Diagrams and graphs

excess gain graph

