

**OYL41176**
**OPTICAL SENSORS • LIGHT CURTAINS**

light curtain, 600x41x9mm, field height 400, resolution 40mm, Sn: 0.3-5m, 10-30V DC, Relay contact Normally open/normally closed, Connector M8 4pin/4pin, IP65, Aluminum+Plastic, With bracket mounting


**MECHANICAL FEATURES**

|                             |                  |
|-----------------------------|------------------|
| Ambient temperature         | -25 °C ... 55 °C |
| Degree of protection (IP)   | IP65             |
| Housing material            | Aluminum         |
| Material of optical surface | Plastic          |
| Protected field height      | 400 mm           |
| Sensor height               | 600 mm           |
| Sensor length               | 40.75 mm         |
| Sensor width                | 9 mm             |
| With bracket mounting       | +                |

**ELECTRICAL FEATURES**

|                                                   |                               |
|---------------------------------------------------|-------------------------------|
| Cascadable                                        | -                             |
| Clock control possible                            | -                             |
| Equipment protection class                        | Protection class 3            |
| No-load current, receiver                         | 60 mA                         |
| No-load current, transmitter                      | 60 mA                         |
| Number of output contacts with signaling function | 1                             |
| Number of pins, receiver                          | 4                             |
| Number of pins, transmitter                       | 4                             |
| Override possible                                 | -                             |
| Rated control supply voltage $U_s$ at DC          | 10 V ... 30 V                 |
| Rated switching current                           | 100 mA                        |
| Reaction time                                     | 220 ms                        |
| Reverse polarity protection                       | +                             |
| Short-circuit protection                          | +                             |
| Suitable for safety functions                     | -                             |
| Suppression possible                              | +                             |
| Type of electrical connection                     | Connector M8                  |
| Type of switching function                        | Normally open/normally closed |
| Type of switching output                          | Relay contact                 |
| Voltage type                                      | DC                            |
| With monitoring function of downstream devices    | -                             |
| With muting function                              | -                             |

## ELECTRICAL FEATURES

|                   |   |
|-------------------|---|
| With restart lock | - |
|-------------------|---|

## OPTICAL FEATURES

|                                 |        |
|---------------------------------|--------|
| Protected field range           | 5 m    |
| Beam spacing                    | 40 mm  |
| Wavelength of the sensor        | 880 nm |
| Resolution of the light curtain | 40 mm  |
| Number of beams                 | 11     |
| Min. distance                   | 0.3 m  |

## OTHER FEATURES

|                                         |                          |
|-----------------------------------------|--------------------------|
| Explosion safety category for dust      | None                     |
| Explosion safety category for gas       | None                     |
| Reduced resolution                      | -                        |
| Scope of delivery of the one-way system | Transmitter and receiver |
| With beam coding                        | +                        |

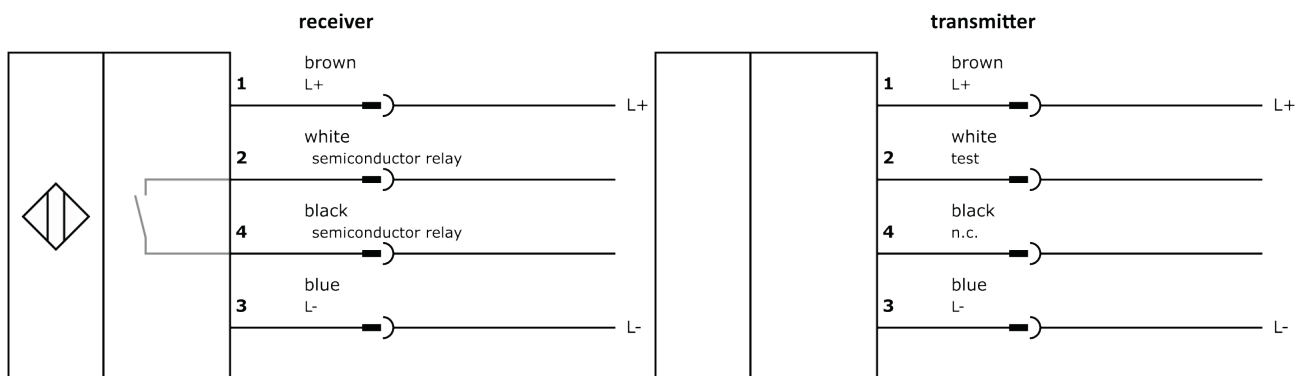
## Other

|                      |                       |
|----------------------|-----------------------|
| Packaging dimensions | 0.0mm x 0.0mm x 0.0mm |
| Shipping weight      | 0.51kg                |
| Tariff code          | 85365019              |

## Classification

|                   |          |
|-------------------|----------|
| ipf product group | 100      |
| eClass 8.0        | 27270910 |
| eClass 9.0        | 27270910 |
| eClass 9.1        | 27270910 |
| ETIM-5.0          | EC002549 |
| ETIM-6.0          | EC002549 |
| ETIM-7.0          | EC002549 |

## Connection



## Dimensional drawing

## Installation



Mounting / installation may only be carried out by a qualified electrician!

## Disposal



**Safety warnings**

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information.

Never use these devices in applications where the safety of a person depends on their functionality.

LED lighting systems can generate intensive UV radiation, which can damage your eyes in case of improper use. The manufacturer cannot be held responsible for damages that result from improper use or connection.