

**OT140478**
**OPTICAL SENSORS • DIFFUSE REFLECTION SENSORS WITH BACKGROUND SUPPRESSION**

sensor optical, diffuse-reflection sensor, 34x14x12mm, Sn: 3-30, 10-30V DC, 2x PNP Anticoincidence, Connector M8 4pin, IP67, Plastic ASA+PMMA, 0.5kHz, Background suppression, Polarity free red light, Point, Manual adjustment


**MECHANICAL FEATURES**

|                                             |                  |
|---------------------------------------------|------------------|
| Ambient temperature                         | -25 °C ... 65 °C |
| Degree of protection (IP)                   | IP67             |
| Design                                      | Cuboid           |
| Housing material                            | Plastic ASA      |
| Material of optical surface                 | PMMA             |
| Max. tightening torque                      | 0.5 Nm           |
| Reflector included in the scope of delivery | -                |
| Sensor height                               | 33.5 mm          |
| Sensor length                               | 14 mm            |
| Sensor width                                | 12 mm            |
| Volume                                      | Small            |

**ELECTRICAL FEATURES**

|                               |                     |
|-------------------------------|---------------------|
| Adjustment range              | 20 mm ... 30 mm     |
| Analog output 0 mA ... 20 mA  | -                   |
| Analog output 0 V ... 10 V    | -                   |
| Analog output -10 V ... +10 V | -                   |
| Analog output 4 mA ... 20 mA  | -                   |
| Decay time                    | 1 ms                |
| Interference suppression      | +                   |
| Max. switching distance       | 30 mm               |
| Min. switching distance       | 3 mm                |
| No-load current               | 30 mA               |
| Number of pins                | 4                   |
| Number of switching outputs   | 2                   |
| Operating voltage             | 10 V ... 30 V       |
| Rated switching current       | 100 mA              |
| Rated switching distance      | 30 mm               |
| Response time                 | 1 ms                |
| Reverse polarity protection   | +                   |
| Scanning function             | Light-/dark-on mode |
| Sensing range                 | 3 mm ... 30 mm      |
| Setting procedure             | Manual adjustment   |

## ELECTRICAL FEATURES

|                                       |                 |
|---------------------------------------|-----------------|
| Short-circuit protection              | +               |
| Switching frequency                   | 500 Hz          |
| Type of electrical connection         | Connector M8    |
| Type of switching function            | Anticoincidence |
| Type of switching output              | PNP             |
| Voltage drop                          | 1.8 V           |
| Voltage type                          | DC              |
| With LED display                      | +               |
| With LED display (functional reserve) | +               |
| With LED display (signal)             | +               |
| With other analog output              | -               |
| With time function                    | -               |

## OPTICAL FEATURES

|                          |                         |
|--------------------------|-------------------------|
| Light source             | Polarity free red light |
| Wavelength of the sensor | 660 nm                  |
| Triangulation            | Background suppression  |
| Light beam form          | Point                   |
| Background suppression   | +                       |

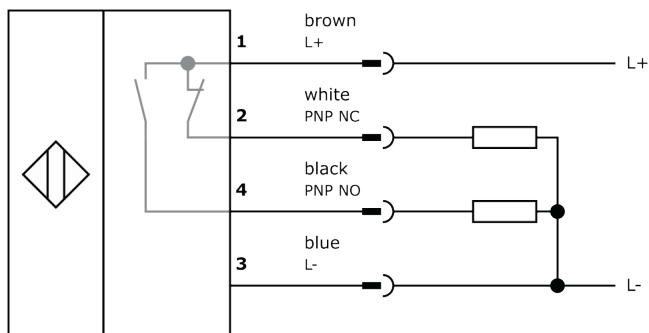
## Other

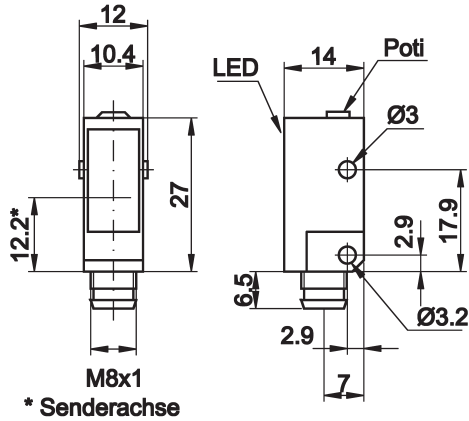
|                      |                          |
|----------------------|--------------------------|
| Packaging dimensions | 75.0mm x 17.0mm x 95.0mm |
| Shipping weight      | 0.01kg                   |
| Tariff code          | 85365019                 |

## Classification

|                   |          |
|-------------------|----------|
| ipf product group | 100      |
| eClass 8.0        | 27270904 |
| eClass 9.0        | 27270904 |
| eClass 9.1        | 27270904 |
| ETIM-5.0          | EC002719 |
| ETIM-6.0          | EC002719 |
| ETIM-7.0          | EC002719 |

## 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.