

## OR170120

### OPTICAL SENSORS • RETRO-REFLECTIVE SENSORS

sensor optical, reflective, 50x50x15mm, Polarized red light, Point, Teach-In, Sn: 6000, 10-30V DC, PNP NO (NO), Connector M12 4pin, IP67, Zinc die-cast+PMMA, With polarizing filter, For transparent objects



#### MECHANICAL FEATURES

|   |                  |
|---|------------------|
| Ambient temperature                         | -25 °C ... 65 °C |
| Degree of protection (IP)                   | IP67             |
| Design                                      | Cuboid           |
| Housing material                            | Zinc die-cast    |
| Increased ambient temperatures >70°C        | -                |
| Material of optical surface                 | PMMA             |
| Reflector included in the scope of delivery | -                |
| Sensor height                               | 50 mm            |
| Sensor length                               | 50 mm            |
| Sensor width                                | 15.4 mm          |
| Volume                                      | Medium           |

#### ELECTRICAL FEATURES

|                               |                            |
|-------------------------------|----------------------------|
| Alarm output                  | -                          |
| Decay time                    | 2.5 ms                     |
| Function test                 | -                          |
| Interference suppression      | -                          |
| Max. switching distance       | 6000 mm                    |
| No-load current               | 50 mA                      |
| Number of pins                | 4                          |
| Operating voltage             | 10 V ... 30 V              |
| Rated switching current       | 200 mA                     |
| Rated switching distance      | 6000 mm                    |
| Response time                 | 2.5 ms                     |
| Reverse polarity protection   | +                          |
| Scanning function             | Dark switching             |
| Setting procedure             | Teach-In                   |
| Short-circuit protection      | +                          |
| Switching frequency           | 200 Hz                     |
| Type of electrical connection | Connector M12              |
| Type of switching function    | Normally open contact (NO) |
| Type of switching output      | PNP                        |
| Voltage drop                  | 1.8 V                      |

## ELECTRICAL FEATURES

|                        |    |
|------------------------|----|
| Voltage type           | DC |
| With LED display       | +  |
| With polarizing filter | +  |
| With time function     | -  |

## OPTICAL FEATURES

|                          |                     |
|--------------------------|---------------------|
| Light source             | Polarized red light |
| Wavelength of the sensor | 660 nm              |
| Light beam form          | Point               |
| For transparent objects  | +                   |

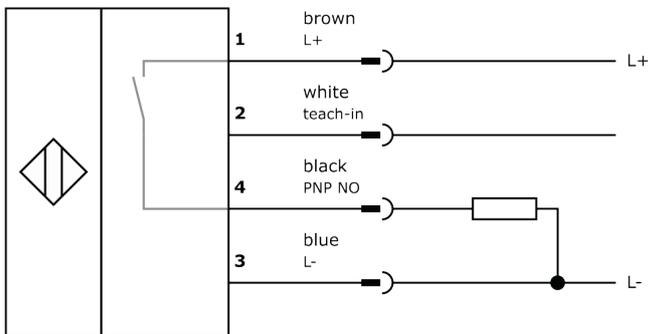
## Other

|                      |                           |
|----------------------|---------------------------|
| Packaging dimensions | 77.0mm x 25.0mm x 123.0mm |
| Shipping weight      | 0.12kg                    |
| Tariff code          | 85365019                  |

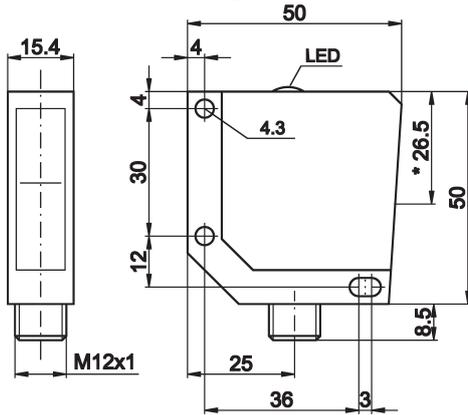
## Classification

|                   |          |
|-------------------|----------|
| ipf product group | 100      |
| eClass 8.0        | 27270902 |
| eClass 9.0        | 27270902 |
| eClass 9.1        | 27270902 |
| ETIM-5.0          | EC002717 |
| ETIM-6.0          | EC002717 |
| ETIM-7.0          | EC002717 |

## 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.