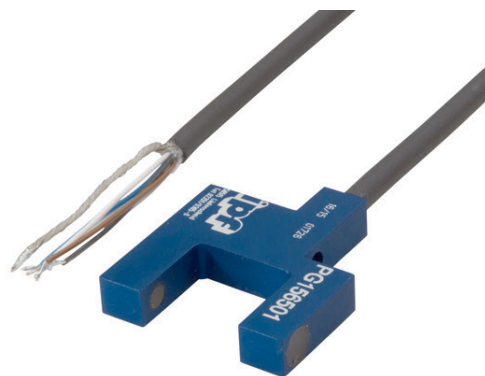


**PG156501**
**LASER SENSORS • FORKED LIGHT BARRIER**

sensor laser, fork, 29x6x32mm, fork width 15mm, 12-30V DC, 1x PNP/NPN NC/NO, Cable 4pin 1m PUR (Polyurethane), IP67, Aluminum+Glass, Infrared light, 25kHz


**MECHANICAL FEATURES**

|                             |                    |
|-----------------------------|--------------------|
| Ambient temperature         | -20 °C ... 50 °C   |
| Aperture diameter           | 0.8 mm             |
| Cable length                | 1 m                |
| Degree of protection (IP)   | IP67               |
| Design                      | Cuboid             |
| Diameter detection          | -                  |
| Fork depth                  | 13.5 mm            |
| Fork light barrier design   | Furcate            |
| Fork width                  | 15 mm              |
| Housing material            | Aluminum           |
| Installation bracket        | -                  |
| Material of cable sheath    | PUR (Polyurethane) |
| Material of optical surface | Glass              |
| Sensor height               | 29 mm              |
| Sensor length               | 6 mm               |
| Sensor width                | 31.5 mm            |

**ELECTRICAL FEATURES**

|                              |                    |
|------------------------------|--------------------|
| Analog output 0 V ... 10 V   | -                  |
| Analog output 4 mA ... 20 mA | -                  |
| Connection to amplifier      | -                  |
| Decay time                   | 0.02 ms            |
| Dynamic switching output     | -                  |
| Equipment protection class   | Protection class 3 |
| No-load current              | 20 mA              |
| Number of pins               | 4                  |
| Number of switching outputs  | 1                  |
| Operating voltage            | 12 V ... 30 V      |
| Rated switching current      | 100 mA             |
| Relative repeat accuracy     | 0.01 mm            |
| Repeatability +/-            | 10 µm              |
| Response time                | 0.02 ms            |
| Reverse polarity protection  | +                  |

## ELECTRICAL FEATURES

|                                      |                                               |
|--------------------------------------|-----------------------------------------------|
| Scanning function                    | Light-/dark-on mode                           |
| Short-circuit protection             | +                                             |
| Switching frequency                  | 25000 Hz                                      |
| Type of electrical connection        | Cable                                         |
| Type of switching function           | Normally closed contact/normally open contact |
| Type of switching output             | PNP/NPN                                       |
| Type of the forked light barrier     | Standard                                      |
| Voltage type                         | DC                                            |
| With communication interface, analog | -                                             |
| With communication interface, RS-232 | -                                             |
| With other analog output             | -                                             |
| With time function                   | -                                             |

## OPTICAL FEATURES

|                  |         |
|------------------|---------|
| Min. object size | 0.01 mm |
| Resolution       | 400 µm  |
| Light beam form  | Point   |
| Laser class      | Class 1 |

## OTHER FEATURES

|                    |   |
|--------------------|---|
| Feeding technology | + |
|--------------------|---|

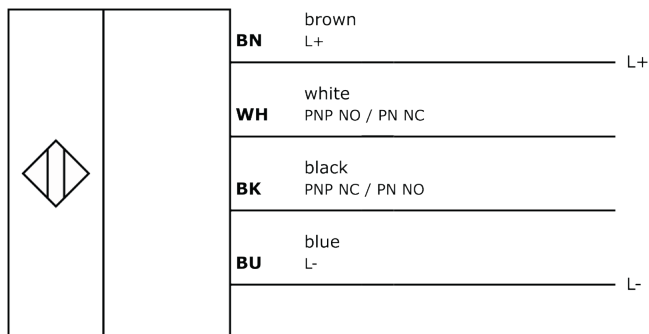
### Other

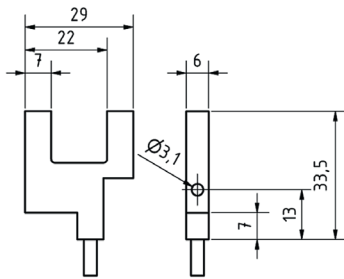
|                      |                           |
|----------------------|---------------------------|
| Packaging dimensions | 77.0mm x 25.0mm x 123.0mm |
| Shipping weight      | 0.05kg                    |
| Tariff code          | 85365019                  |

### Classification

|                   |          |
|-------------------|----------|
| ipf product group | 170      |
| eClass 8.0        | 27270909 |
| eClass 9.0        | 27270909 |
| eClass 9.1        | 27270909 |
| ETIM-5.0          | EC002720 |
| ETIM-6.0          | EC002720 |
| ETIM-7.0          | EC002720 |

## 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.