

PG991445

LASER SENSORS • FORK LIGHT BARRIERS

Special design of through-beam sensor. Transmitter and receiver are located in the fork or angular limbs and are perfectly aligned to each other.



MECHANICAL DATA

| | |
|---|------------------|
| Ambient temperature | -20 °C ... 50 °C |
| Degree of protection (IP) | IP67 |
| Diameter detection | Yes |
| Fork depth | 50 mm |
| Fork light barrier design | Furcate |
| Fork width | 100 mm |
| Housing design | Cuboid |
| Housing material | Aluminium |
| Material of optical surface | Glass |
| Reflector included in the scope of delivery | No |
| Sensor height | 128 mm |
| Sensor length | 12 mm |
| Sensor width | 71 mm |

ELECTRICAL DATA

| | |
|--|---------------------|
| Analogue output 0 mA ... 20 mA | No |
| Analogue output 0 V ... 10 V | Yes |
| Analogue output -10 V ... +10 V | No |
| Analogue output 4 mA ... 20 mA | No |
| Decay time | 0.02 ms |
| Max. output current | 100 mA |
| Max. switching distance | 100 mm |
| Measurement of light beam coverage | Yes |
| No-load current | 60 mA |
| Number of pins | 4 |
| Operating voltage | 12 V ... 32 V |
| Pre-failure message | No |
| Rated control supply voltage U_s at DC | 12 V ... 32 V |
| Response time | 0.02 ms |
| Reverse polarity protection | Yes |
| Scanning function | Light-/dark-on mode |

ELECTRICAL DATA

| | |
|--|---|
| Setting procedure | Manual adjustment |
| Short-circuit-proof | Yes |
| Suitable for safety functions | No |
| Switching frequency | 25000 Hz |
| Type of electrical connection | Connector M8 |
| 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 | No |
| With communication interface, AS-Interface | No |
| With communication interface, CANOpen | No |
| With communication interface, DeviceNet | No |
| With communication interface, Ethernet | No |
| With communication interface, INTERBUS | No |
| With communication interface, PROFIBUS | No |
| With communication interface, RS-232 | No |
| With communication interface, RS-422 | No |
| With communication interface, RS-485 | No |
| With communication interface, SSD | No |
| With communication interface, SSI | No |
| With monitoring function of downstream devices | No |
| With other analog output | No |
| With restart lock | No |
| With time function | No |

OPTICAL DATA

| | |
|--------------------------|------------------------|
| Aperture length | 3 mm |
| Aperture width | 0.75 mm |
| Laser protection class | Class 1 |
| Light beam form | Line |
| Light source | Laser diode, red light |
| Wavelength of the sensor | 670 nm |

OTHER DATA

| | |
|--------------------|-----|
| Edge control | Yes |
| Feeding technology | Yes |

