

PG500375

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 | 0 °C ... 50 °C |
| Degree of protection (IP) | IP67 |
| Fork depth | 35 mm |
| Fork light barrier design | Furcate |
| Fork width | 50 mm |
| Housing design | Cuboid |
| Housing material | Zinc die-cast |
| Material of optical surface | Glass |
| Reflector included in the scope of delivery | No |
| Sensor height | 70 mm |
| Sensor length | 10 mm |
| Sensor width | 80 mm |

ELECTRICAL DATA

| | |
|--|---------------|
| Analogue output 0 mA ... 20 mA | No |
| Analogue output 0 V ... 10 V | No |
| Analogue output -10 V ... +10 V | No |
| Analogue output 4 mA ... 20 mA | No |
| Decay time | 0.17 ms |
| Hysteresis | 0.05 mm |
| Max. output current | 200 mA |
| Max. switching distance | 50 mm |
| No-load current | 30 mA |
| Number of pins | 3 |
| Operating voltage | 10 V ... 35 V |
| Pre-failure message | No |
| Rated control supply voltage U_s at DC | 10 V ... 35 V |
| Relative repeat accuracy | 0.02 mm |
| Repeatability +/- | 20 μ m |
| Response time | 0.17 ms |
| Reverse polarity protection | Yes |

ELECTRICAL DATA

| | |
|--|---|
| Scanning function | Light-/dark-on mode |
| Setting procedure | Manual adjustment |
| Short-circuit-proof | Yes |
| Suitable for safety functions | No |
| Switching frequency | 3000 Hz |
| Type of electrical connection | Connector M8 |
| Type of switching function | Normally closed contact/normally open contact |
| Type of switching output | PNP |
| Type of the forked light barrier | Standard |
| Voltage drop | 2.8 V |
| 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 |

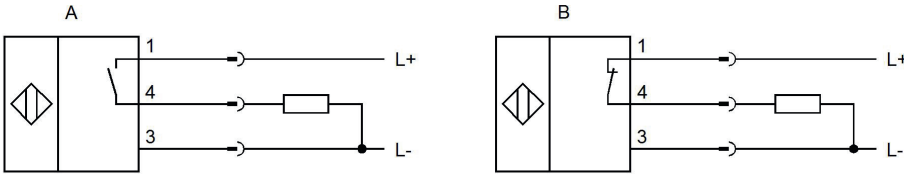
OPTICAL DATA

| | |
|--------------------------|------------------------|
| Laser protection class | Class 1 |
| Light beam form | Point |
| Light source | Laser diode, red light |
| Min. object size | 0.1 mm |
| Resolution | 100 µm |
| Wavelength of the sensor | 670 nm |

OTHER DATA

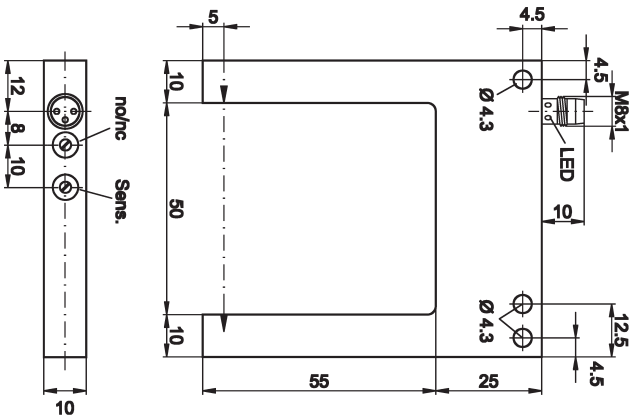
| | |
|--------------------|-----|
| Feeding technology | Yes |
|--------------------|-----|

CONNECTION



Colors: A: 1 = BN (brown), 3 = BU (blue), 4 = BK (black)
 B: 1 = BN (brown), 3 = BU (blue), 4 = BK (black)
Functions: A: 1 = L+, 3 = L-, 4 = PNP NO
 B: 1 = L+, 3 = L-, 4 = PNP NC

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!