

PG50E122

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 (MAX)	50 °C
Ambient temperature (MIN)	0 °C
Aperture diameter	0.3 mm
Degree of protection (IP)	IP67
Diameter detection	Yes
Fork depth	50 mm
Fork light barrier design	Furcate
Fork width	50 mm
Housing design	Cuboid
Housing material	Aluminium
Material of optical surface	Glass
Reflector included in the scope of delivery	No
Sensor height	59.8 mm
Sensor length	66 mm
Sensor width	8 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
Connection to amplifier	Yes
Equipment protection class	Protection class 3
Max. switching distance	50 mm
Measurement of light beam coverage	Yes
No-load current	70 mA
No-load current, receiver	20 mA
No-load current, transmitter	50 mA
Number of pins	4
Number of pins of receiver connection	4
Number of pins of transmitter connection	3

ELECTRICAL DATA

Pre-failure message	No
Rated switching distance	50 mm
Suitable for safety functions	No
Type of electrical connection	M8-connector
Type of electrical connection, receiver	Connector M8
Type of electrical connection, transmitter	Connector M8
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	Yes
With restart lock	No
With time function	No

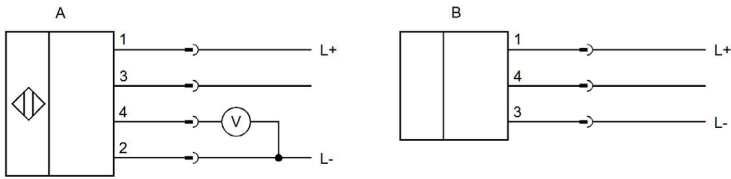
OPTICAL DATA

Laser protection class	Class 1
Light beam form	Point
Light source	Laser diode, red light
Light spot	0.07 mm ²
Min. object size	0 mm
Resolution	3 µm
Wavelength of the sensor	670 nm

OTHER DATA

Feeding technology	Yes
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CONNECTION

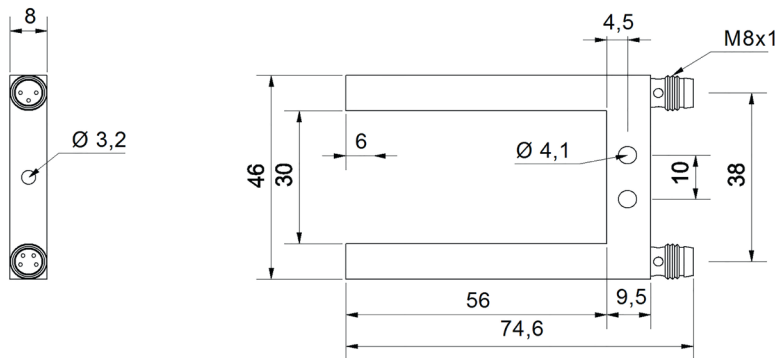


Colors: A: 1 = BN (brown), 2 = WH (white), 3 = BU (blue), 4 = BK (black)

B: 1 = BN (brown), 3 = BU (blue), 4 = BK (black) **Functions:** A: 1 = L+, 2 = L-, 3 = shield, 4 = 0-10V

B: 1 = L+, 3 = L-, 4 = I-Control 0-5V

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.