

PGSI0101**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	-10 °C ... 50 °C
Degree of protection (IP)	IP54
Diameter detection	Yes
Fork depth	40 mm
Fork light barrier design	Furcate
Fork width	40 mm
Housing design	Cuboid
Housing material	Aluminium
Material of optical surface	Glass
Reflector included in the scope of delivery	No
Sensor height	24 mm
Sensor length	115 mm
Sensor width	85 mm
Transparent material detection	Yes

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
Max. output current	100 mA
Max. switching distance	40 mm
Measurement of light beam coverage	Yes
No-load current	200 mA
Number of pins	8
Number of pins of the communication interface	4
Operating voltage	15 V ... 30 V
Pre-failure message	No
Rated control supply voltage U_s at DC	15 V ... 30 V
Relative repeat accuracy	0 mm
Repeatability +/-	2 μ m

ELECTRICAL DATA

Scanning function	Light-/dark-on mode
Setting procedure	Parameterization
Short-circuit-proof	Yes
Suitable for safety functions	No
Type of electrical connection	Binder 712
Type of plug-in contact, communication interface	Female (socket)
Type of switching function	Normally closed contact/normally open contact
Type of switching output	PNP/NPN
Type of the forked light barrier	High resolution
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	Yes
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	Yes

OPTICAL DATA

Laser protection class	Class 1
Light source	Laser diode, red light
Resolution	2 µm
Wavelength of the sensor	670 nm

OTHER DATA

Edge control	Yes
Feeding technology	Yes

DIMENSIONAL DRAWING

INSTALLATION

DISPOSAL



Mounting / Installation may only be carried out by a qualified electrician!



SAFETY WARNINGS

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information!