

## PGK00145

### 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

Diameter detection	Yes
Fork depth	100 mm
Fork light barrier design	Furcate
Fork width	100 mm
Housing design	Cuboid
Material of optical surface	Glass
Reflector included in the scope of delivery	No
Sensor height	150 mm
Sensor length	24 mm
Sensor width	160 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
Max. switching distance	100 mm
Measurement of light beam coverage	Yes
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
Scanning function	Light-/dark-on mode
Suitable for safety functions	No
Type of communication interface	Connector M5
Type of electrical connection	Plug-in connection
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	Standard

## ELECTRICAL DATA

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	No

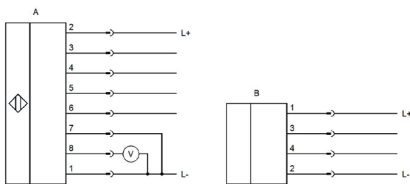
## OPTICAL DATA

Laser protection class	Class 1
Light source	Laser diode, red light
Min. object size	0.16 mm
Resolution	160 µm
Wavelength of the sensor	670 nm

## OTHER DATA

Edge control	Yes
Feeding technology	Yes

## CONNECTION



**Colors:** A: 1 = WH (white), 2 = BN (brown), 3 = GN (green), 4 = YE (yellow), 5 = GY (gray), 6 = PK (pink), 7 = BU (blue), 8 = RD (red)

**Functions:** A: 1 = L-, 2 = L+, 3 = in 0 (ext. trigger), 4 = in 1 (teach/reset), 5 = out 0, 6 = out 1, 7 = GND, 8 = 0-10V  
 B: 1 = L+, 2 = L-, 3 = Rx D, 4 = Tx D

## 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!