

**OG05A459****OPTICAL 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	-25 °C ... 55 °C
Degree of protection (IP)	IP40
Fork depth	5 mm
Fork light barrier design	Furcate
Fork width	5 mm
Housing design	Cuboid
Housing material	PBT
Installation bracket	Yes
Material of optical surface	Plastic
Reflector included in the scope of delivery	No
Sensor height	7 mm
Sensor length	26.2 mm
Sensor width	25.4 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	0.2 ms
Hysteresis	0.05 mm
Max. output current	50 mA
Max. switching distance	5 mm
No-load current	15 mA
Number of pins	4
Operating voltage	5 V ... 24 V
Pre-failure message	No
Rated control supply voltage $U_s$ at DC	5 V ... 24 V
Relative repeat accuracy	0.03 mm
Repeatability +/-	30 µm
Response time	0.2 ms

**ELECTRICAL DATA**

Scanning function	Light-/dark-on mode
Suitable for safety functions	No
Switching frequency	1000 Hz
Type of electrical connection	Cable
Type of switching function	Normally closed contact/normally open contact
Type of switching output	PNP
Type of the forked light barrier	Standard
Voltage drop	0.7 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**

Light source	Infrared light
Min. object size	1.8 mm
Resolution	500 µm

**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!

