

OG05A221**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 | 22.2 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 μ m |
| 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 | Soldering flag connection |
| Type of switching function | Anticoincidence |
| 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

| | |
|------------------------|----------------|
| Laser protection class | None |
| Light beam form | Point |
| Light source | Infrared light |
| Min. object size | 1.8 mm |
| Resolution | 800 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!

