

OG500021

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 (MAX)	50 °C
Ambient temperature (MIN)	5 °C
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	Zinc die-cast
Material of optical surface	Plastic
Reflector included in the scope of delivery	No
Sensor height	105 mm
Sensor length	15 mm
Sensor width	75 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	Yes
Decay time	0.25 ms
Hysteresis	0.25 mm
Max. output current	200 mA
Max. switching distance	50 mm
Measurement of light beam coverage	Yes
No-load current	50 mA
Number of pins	4
Operating voltage (MAX)	35 V
Operating voltage (MIN)	15 V
Pre-failure message	No
Rated control supply voltage U_s at DC (MAX)	35 V

ELECTRICAL DATA

Rated control supply voltage U_s at DC (MIN)	15 V
Relative repeat accuracy	0.05 mm
Repeatability +/-	50 μ m
Response time	0.25 ms
Reverse polarity protection	Yes
Scanning function	Light-/dark-on mode
Setting procedure	Manual adjustment
Short-circuit-proof	Yes
Suitable for safety functions	No
Switching frequency	2000 Hz
Type of electrical connection	Connector M12
Type of switching function	Normally closed contact/normally open contact
Type of switching output	PNP
Type of the forked light barrier	Analogue
Voltage drop	2.8 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

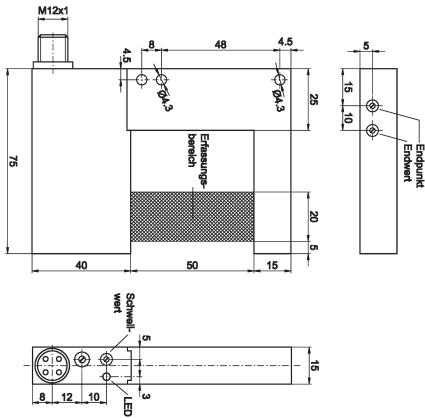
OPTICAL DATA

Laser protection class	None
Light beam form	Point
Light source	Infrared light
Min. object size	0.5 mm
Resolution	500 μ m
Wavelength of the sensor	880 nm

OTHER DATA

Edge control	Yes
Feeding technology	Yes

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.