

## OG500021

### Optical sensors • Forked light barriers

sensor optical, fork, 105x15x75mm, fork width 50mm, 15-35V DC, 1x PNP NC/NO, 4-20 mA, Connector M12 4pin, IP67, Zinc die-cast+Plastic, Infrared light, 2kHz, Manual adjustment



Special design of through-beam sensor. Transmitter and receiver are located in the fork or angular limbs and are perfectly aligned to each other.

#### Electrical features

Response/decay time	0.25ms
Number of switching outputs	1
Resolution	0.5mm
Type of the forked light barrier	Analog
Type of switching function	Normally closed contact/normally open contact
Type of analog output	4 - 20mA
Type of electrical connection	Connector M12
Type of switching output	PNP
Rated switching current	200mA
Setting procedure	Potentiometer
Absolute hysteresis	0.25mm
Short-circuit protection	Yes
No-load current	50mA
Number of pins	4
Repeatability +/-	50µm
Switching frequency	2000Hz
Protection class	III
Voltage drop	2.8V
Scanning function	Light-/dark-on mode
Reverse polarity protection	Yes
Decay time	0.25ms
Absolute repeat accuracy	0.05mm
Operating voltage (DC)	15 - 35V
Measurement of light beam coverage	Yes
Output functions	Switching point

**Mechanical features**

Design	Cuboid
Fork light barrier design	Furcate
Width	75mm
Fork depth	50mm
Fork width	50mm
Height	105mm
Length	15mm
Degree of protection (IP)	IP67
Active area material of sensor	Plastic
Housing material	Zinc die-cast
Diameter detection	Yes
Ambient temperature	5 - 50°C

**Optical features**

Light source	Infrared light
Light beam form	Point
Min. object size	0.5mm
Light wavelength of the transmitter diode	880nm
Wavelength of the sensor	880nm

**Other features**

Edge control	Yes
Feeding technology	Yes
Ambient temperature	5 - 50°C

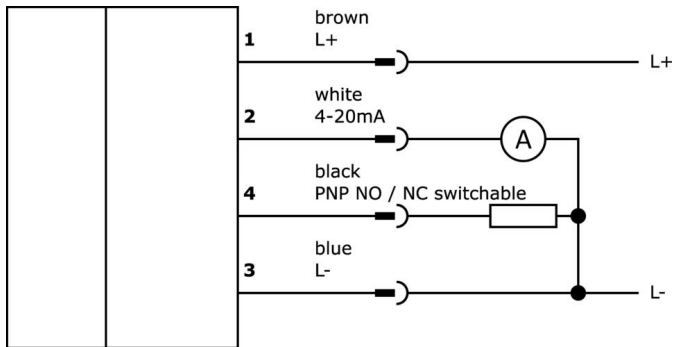
**Classification**

ETIM 8	EC002720 Fork light barrier
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**More**

IPF Product Group	110 fork / angular light barriers
packaging dimensions	149 x 124 x 28 mm
gross weight	200 g
Customs tariff number	85365019
WEEE number	40951076
POP-compliant	Yes
Reach-compliant	Yes
RoHS-compliant	Yes

## Connection



## 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.

For suitable connection and mounting accessories, please refer to our website [www.ipf-electronic.com](http://www.ipf-electronic.com).

## Dimensional drawing

