

## OG500375

### Optical sensors • Forked light barriers

sensor optical, fork, Difference evaluation, 70x10x90mm, fork width 50mm, 12-35V DC, 1x PNP NC/NO, Connector M8 3pin, IP67, Aluminum+Plastic, Infrared light, 5kHz, Manual adjustment



### Detection of transparent materials

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	0.1ms
Number of switching outputs	1
Resolution	0.07mm
Type of switching function	Normally closed contact/normally open contact
Type of electrical connection	Connector M8
Type of switching output	PNP
Rated switching current	200mA
Setting procedure	Potentiometer
Absolute hysteresis	0.2mm
Short-circuit protection	Yes
No-load current	35mA
Number of pins	3
Repeatability +/-	100µm
Switching frequency	5000Hz
Protection class	III
Voltage drop	2.5V
Scanning function	Light-/dark-on mode
Reverse polarity protection	Yes
Decay time	0.1ms
Absolute repeat accuracy	0.1mm
Operating voltage (DC)	12 - 35V
Output functions	Switching point

**Mechanical features**

Design	Cuboid
Fork light barrier design	Furcate
Width	90mm
Fork depth	55mm
Fork width	50mm
Height	70mm
Length	10mm
Degree of protection (IP)	IP67
Active area material of sensor	Plastic
Housing material	Aluminum
Transparent material detection	Yes
Ambient temperature	0 - 60°C

**Optical features**

Light source	Infrared light
Light beam form	Point
Min. object size	0.07mm
Light wavelength of the transmitter diode	880nm
Wavelength of the sensor	880nm

**Other features**

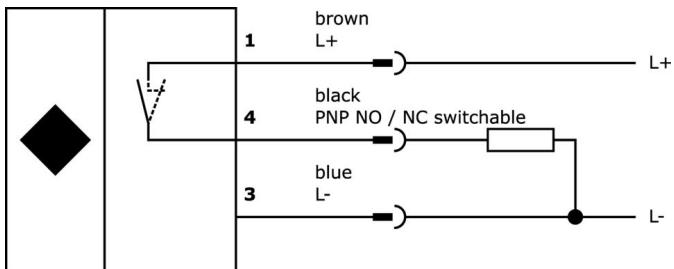
Features	Dual-beam
Feeding technology	Yes
Ambient temperature	0 - 60°C
Version	Differential fork

**Classification**

ETIM 8	EC002720 Fork light barrier
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**More**

IPF Product Group	110 fork / angular light barriers
packaging dimensions	123 x 77 x 25 mm
gross weight	80 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

