

## OG06E129

### Optical sensors • Forked light barriers

sensor optical, fork, 22x7x26mm, fork width 6mm, 5-24V DC, 1x PNP Anticoincidence, JST 4pin, IP40, PBT+Plastic, Infrared light, 3kHz



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              | 0.08ms              |
| Number of switching outputs      | 1                   |
| Resolution                       | 0.96mm              |
| Type of the forked light barrier | Standard            |
| Type of switching function       | Exclusive-OR        |
| Type of electrical connection    | JST connector       |
| Type of switching output         | PNP                 |
| Rated switching current          | 50mA                |
| Absolute hysteresis              | 0.05mm              |
| Short-circuit protection         | Yes                 |
| No-load current                  | 15mA                |
| Number of pins                   | 4                   |
| Switching frequency              | 3000Hz              |
| Protection class                 | III                 |
| Voltage drop                     | 2V                  |
| Scanning function                | Light-/dark-on mode |
| Decay time                       | 0.08ms              |
| Absolute repeat accuracy         | 0.01mm              |
| Operating voltage (DC)           | 5 - 24V             |

**Mechanical features**

|                                |            |
|--------------------------------|------------|
| Design                         | Cuboid     |
| Fork light barrier design      | Furcate    |
| Width                          | 26mm       |
| Fork depth                     | 8.4mm      |
| Fork width                     | 6mm        |
| Height                         | 22.4mm     |
| Length                         | 7mm        |
| Maximum tightening torque      | 0.5Nm      |
| Degree of protection (IP)      | IP40       |
| Active area material of sensor | Plastic    |
| Housing material               | PBT        |
| Installation bracket           | Yes        |
| Ambient temperature            | -25 - 55°C |

**Optical features**

|   |                |
|---|----------------|
| Light source                              | Infrared light |
| Light beam form                           | Point          |
| Min. object size                          | 1mm            |
| Light wavelength of the transmitter diode | 855nm          |
| Wavelength of the sensor                  | 855nm          |

**Other features**

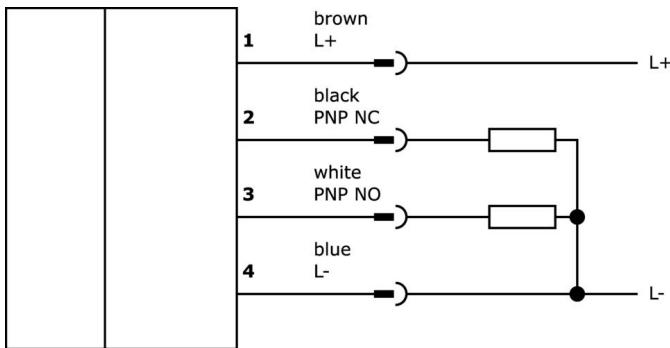
|                     |            |
|---------------------|------------|
| Ambient temperature | -25 - 55°C |
|---------------------|------------|

**Classification**

|        |                             |
|--------|-----------------------------|
| ETIM 8 | EC002720 Fork light barrier |
|--------|-----------------------------|

**More**

|                       |                                   |
|-----------------------|-----------------------------------|
| IPF Product Group     | 110 fork / angular light barriers |
| packaging dimensions  | 120 x 100 x 10 mm                 |
| gross weight          | 6 g                               |
| Customs tariff number | 85365019                          |
| WEEE number           | 40951076                          |
| OzDS-compliant        | Yes                               |
| 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**