

## PGKB0570

### Laser sensors • Forked light barrier

sensor laser, fork, 144x12x90mm, fork width 120mm, 10-30V DC, 1x PNP/NPN NC/NO, IO-Link, Connector M8 3pin, IP67, Zinc die-cast+Glass, Red light, 5kHz pulsed, 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              | 0.1ms   |
| Number of switching outputs      | 1   |
| Resolution                       | 0.1mm   |
| Type of the forked light barrier | Standard                                      |
| Type of switching function       | Normally closed contact/normally open contact |
| Type of electrical connection    | Connector M8                                  |
| Type of switching output         | PNP/NPN                                       |
| Rated switching current          | 100mA   |
| Setting procedure                | Manual adjustment                             |
| Short-circuit protection         | Yes   |
| No-load current                  | 30mA  |
| Number of pins                   | 3   |
| Repeatability +/-                | 10µm  |
| Switching frequency              | 5000Hz  |
| Protection class                 | III   |
| Voltage drop                     | 2V  |
| Scanning function                | Light-/dark-on mode                           |
| Reverse polarity protection      | Yes   |
| Decay time                       | 0.1ms   |
| Absolute repeat accuracy         | 0.01mm  |
| Operating voltage (DC)           | 10 - 30V                                      |

**Mechanical features**

|                                |               |
|--------------------------------|---------------|
| Design                         | Cuboid        |
| Fork light barrier design      | Furcate       |
| Width                          | 90mm          |
| Fork depth                     | 60mm          |
| Fork width                     | 120mm         |
| Height                         | 144mm         |
| Length                         | 12mm          |
| Degree of protection (IP)      | IP67          |
| Active area material of sensor | glass         |
| Housing material               | Zinc die-cast |
| Ambient temperature            | -25 - 60°C    |

**Optical features**

|   |           |
|---|-----------|
| Laser class                               | Class 1   |
| Light source                              | red light |
| Light beam form                           | Point     |
| Min. object size                          | 0.1mm     |
| Light wavelength of the transmitter diode | 655nm     |
| Wavelength of the sensor                  | 655nm     |
| Pulsed light source                       | Yes       |

**Other features**

|                     |            |
|---------------------|------------|
| Feeding technology  | Yes        |
| Ambient temperature | -25 - 60°C |

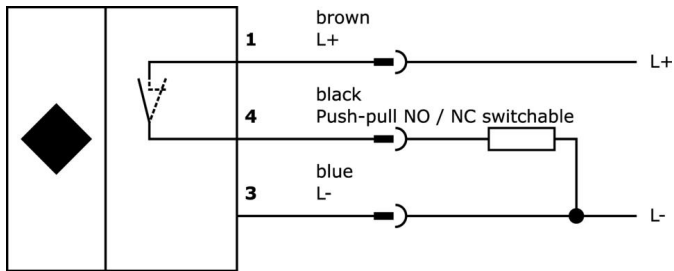
**Classification**

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

**More**

|                       |                                       |
|-----------------------|---------------------------------------|
| IPF Product Group     | 170 laser fork/angular light barriers |
| packaging dimensions  | 165 x 130 x 35 mm                     |
| gross weight          | 296 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).

Any software, drivers or IODD files that may be required to operate your device can be downloaded free of charge from our homepage: [www.ipf-electronic.com](http://www.ipf-electronic.com)

## Dimensional drawing

