

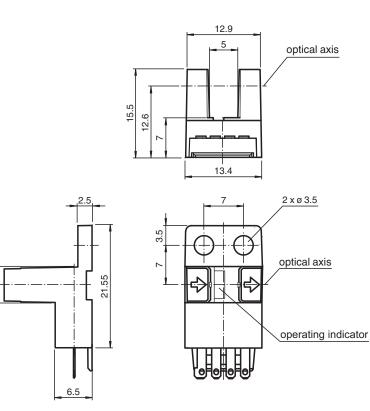
Miniature photoelectric slot sensor for the detection of small parts, Y design, fork width 5 mm, infrared light, NPN outputs, flat connector



### **Function**

The GL5 miniature slot sensor compares a high optical performance in a small housing and is optimized to the requirements in semiconductors industry for small part detection. A wide voltage range of 5 - 24 V DC and the fastest switching frequency of 5 kHz in its class stands for the quality of this sensor. The integrated aperture allows the small part detection with a minimum object size of 0.8 x 1.8 mm. The sensor offers antivalent npn or pnp outputs. Due to a variety of different housings and an optimized housing concept offers the sensor a maximum of freedom in a crowded mounting environment.

## Dimensions



Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

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# **Technical Data**

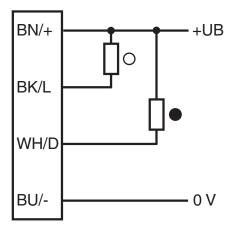
Light sourceHEDLight speedInfraced.continuous light, 940 nmLight type0.8 x1.8 nmSlot with0.8 x1.8 nmSlot depth0.8 x1.8 nmSlot depth0.00 LxxAmbient light limith0.00 LxxFunctional safety related parameters0.00 LxxFunctional safety related parameters0.00 LxxIndicators/persong neares0.00 aDiagnostic Coverage (DC)0.00 aDiagnostic Coverage (DC)0.00 aOperating voltage0.00 aCorrecting meansred LED lights up when receiving the light beamElectrical specifications0.00 aCoverage (DC)0.00 aOperating voltage0.00 aOperating voltage0.00 aSighal output0.00 max. 20 mASighal output0.00 max. 20 mASighal output0.00 max. 20 val 10 m Amax. 06 Val 50 mASighal output0.00 max. 20 val 10 m Amax. 06 Val 50 mASighal output0.00 max. 20 val 10 m Amax. 06 Val 50 mASighal output0.00 max. 20 val 10 m Amax. 06 Val 50 mASighal output0.00 max. 20 val 10 m Amax. 06 Val 50 mASighal output0.00 max. 20 val 10 m Amax. 06 Val 50 mASighal output0.00 max. 20 val 10 m Amax. 06 Val 50 mASighal output0.00 max. 20 val 10 mAmax. 06 Val 50 mASighal output0.00 max. 20 val 10 mAmax. 06 Val 50 mASighal output0.00 max. 20 val 10 mAmax. 06 Val 50 mASighal output0.00 max. 20 val 10 mAmax. 06 Val 50 mASighal output0.00 max	General specifications		
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Mass 3 g	Material		
	Housing		PBT
	Mass		3 g
Tightening torque, fastening screws0.6 Nm	Tightening torque, fastening screws		0.6 Nm

 Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

 Pepperl+Fuchs Group
 USA: +1 330 486 0001
 Gr

 www.pepperl-fuchs.com
 fa-info@us.pepperl-fuchs.com
 fa-info@us.pepperl-fuchs.com

# **Connection Assignment**



- O = Light on
- = Dark on

### Accessories

CBL SET GL5

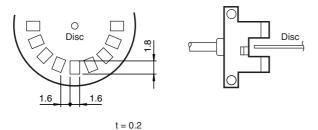
Connection cable for GL5 series

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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## **Response frequency**

The response frequency is the value when the disc, given in the figure below, is rotated.



#### Applications

The GL5 is suited for applications in the semiconductor and electronic industrial environment.

- Typical applications include:
- 1. Detection of lead frames
- 2. Detection of cam positions
- 3. Detection of limit positions of moving objects
- 4. Position detection of wafer cases

Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

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