

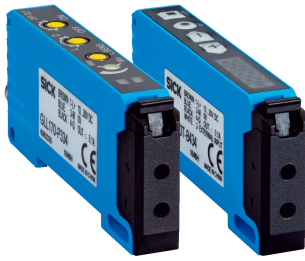


# GLL170

Simple, flexible detection

FIBER-OPTIC SENSORS

**SICK**  
Sensor Intelligence.



### Technical data overview

<b>Dimensions (W x H x D)</b>	10 mm x 31.7 mm x 72.5 mm
<b>Sensing range max.</b>	0 mm ... 400 mm, Proximity system <sup>1) 2)</sup> 0 mm ... 1,320 mm, Through-beam system <sup>3)</sup>
<b>Light source</b>	LED
<b>Type of light</b>	Visible red light
<b>Enclosure rating</b>	IP66 <sup>4)</sup>
<b>Housing material</b>	Plastic PC/POM
<b>Adjustment</b>	Potentiometer, 8 turns <sup>5)</sup> Teach-in button Cable Plus/minus button

<sup>1)</sup> Object with 90 % reflectance (referred to standard white, DIN 5033).

<sup>2)</sup> LL3-DK06.

<sup>3)</sup> LL3-TB02.

<sup>4)</sup> With correctly attached fibre-optic cable LL3.

<sup>5)</sup> Sensitivity scale 230°.

### Product description

The GLL170 fiber-optic sensor is the reliable solution for all detection tasks in combination with the fibers in the LL3 product family. With its simple operating concept, the sensor is ideal for applications in harsh environments as well as when rapid response times are crucial. Different variants are available to suit all requirements: The GLL170 variant with potentiometer enables quick and easy commissioning thanks to its intuitive operation. The GLL170T variant with teach-in function features a display for direct sensor feedback and provides solutions for numerous applications with its range of adjustments. With a switching frequency of up to 10 kHz, this sensor can even handle rapid processes with ease.

### At a glance

- Intuitive operating concept
- Rapid response time of 50 µs
- Switching threshold adjustment via potentiometer, or teach-in via pushbutton or cable
- IP 66 enclosure rating for high degree of ruggedness
- PNP/NPN switchover (teach-in variant)
- 4-digit digital display (teach-in variant)
- Variable fixing concept
- Various connection types available

### Your benefits

- User-friendly handling enables fast commissioning
- Reliable detection even in rapid processes
- Easy to adjust with intuitive potentiometer or teach-in button
- Rugged sensor housing enables mounting outside the control cabinet
- Sensor parameters can be flexibly adapted to a diverse range of applications (teach-in variant)
- Easy monitoring of process parameters (teach-in variant)
- Quick and easy mounting on a mounting rail or using the fixing holes on the sensor
- Can be combined with fibers from the extensive SICK portfolio to form solutions for numerous applications

### Fields of application

- Diverse applications in challenging ambient conditions which require an economical fiber-optic sensor
- Environments with limited space
- Environments with high temperatures
- Handling and assembly technology
- Electronics and solar industry
- Packaging and logistics industry

## Ordering information

Other models and accessories → [www.sick.com/GLL170](http://www.sick.com/GLL170)

- **Sensing range max.:** 0 ... 800 mm
- **Number of switching outputs:** 1
- **Switching mode:** Light/dark switching
- **Enclosure rating:** IP66
- **Adjustment:** Potentiometer

Connection type	Type	Part no.
Cable, 3-wire	GLL170-N332	6063337
	GLL170-N332S02	6068137
	GLL170-N332S07	6072273
	GLL170-P332	6063334
	GLL170-P332S03	6068136
Connector M8, 3-pin	GLL170-N333	6063339
	GLL170-P333	6063336
Male connector M8, 4-pin	GLL170-N334	6063338
	GLL170-P334	6063335
	GLL170-P334S06	6071258
	GLL170-P334S08	6073294

- **Sensing range max.:** 0 ... 1320 mm
- **Input:** Teach-in input
- **Number of switching outputs:** 1
- **Switching mode:** Light/dark switching
- **Enclosure rating:** IP66
- **Adjustment:** Teach-in button, cable

Connection type	Type	Part no.
Cable, 4-wire	GLL170T-B432	6063340
	GLL170T-B432S01	6067015
	GLL170T-B432S09	6073880
	GLL170T-B432S10	6074562
Connector M8, 3-pin	GLL170T-B333	6063342
Male connector M8, 4-pin	GLL170T-B434	6063341
	GLL170T-B434S04	6068636

## SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

## WORLDWIDE PRESENCE:

Contacts and other locations –[www.sick.com](http://www.sick.com)