SICK.COM

PRODUCT OVERVIEW

GLL70

Fiber-optic sensors

SICK Sensor Intelligence

FIBER-OPTIC SENSORS

GLL70

Powerful and versatile fiber optic amplifier

The fiber optic amplifiers from SICK are suitable for the flexible integration of fiber-optic cables in confined spaces. The intuitive OLED display supports four languages and provides a flexible and user-friendly means of parameterization. The high transmitting power and the continuous threshold adaptation ensure a long-term reliable detection with minimal maintenance requirements. With its response time of 50 µs, the GLL70 offers a high detection range (depending on fiber-optic cable) and a diverse portfolio of high precision and adaptable fiber-optic cables. With a choice of NPN or PNP digital output within a single device, the range of variants and the storage costs can be reduced.

GLL70 AT A GLANCE

BENEFITS

- Thanks to a response time of 50 µs, the GLL70 enables reliable and fast object detection.
- User-friendly parameterization thanks to OLED display with text display in four different languages
- GLL70 offers a high level of flexibility in parameterization and, thanks to a broad portfolio of fiber-optic cables, is suitable for many different applications.
- The high transmitting power allows large detection ranges and use in harsh environments.
- Reduction in range of variants and storage costs.
- Installation of fiber optic heads in tight spaces with no mutual interference.

FEATURES

- Response time of 50 µs
- OLED display with text display
- Highly flexible parameters for a wide variety of applications
- High transmitting power
- NPN and PNP in a single device
- Anti-interference function

TECHNICAL DATA OVERVIEW

Detection principle	Depending on the optical fiber cable used

ADVANTAGES

Fast configuration and flexible installation options

The GLL70 fiber-optic amplifier enables quick configuration directly at the sensor with integrated optical feedback on the display. Thanks to the versatile fiber-optic cable portfolio, the GLL70 can also be installed flexibly in tight installation cavities and thus offers a suitable solution for numerous detection tasks.

Intuitive sensor control thanks to OLED display
Settings can be made directly on the sensor, which enables quick and uncomplicated configuration. Thanks to optical feedback on the integrated display, the current selection is clearly shown.
The display supports English, German, Chinese and Korean – for intuitive and user-friendly operation, regardless of location.

Space-saving installation
Thanks to SICK's extensive fiber-optic cable portfolio with versatile sensor heads and different lengths, the GLL70 fiber-optic amplifier can also be used in tight installation cavities. Flexible adaptation to different installation requirements and smooth integration into numerous environments are possible. In combination with the appropriate fiber-optic cable, the GLL70 fiber-optic amplifier is also suitable for applications with high ambient temperatures, where contact with chemicals occurs, and or for use in a vacuum.
Discover fiber-optic cables

GLL70 - Rugged, fast and easy to maintain

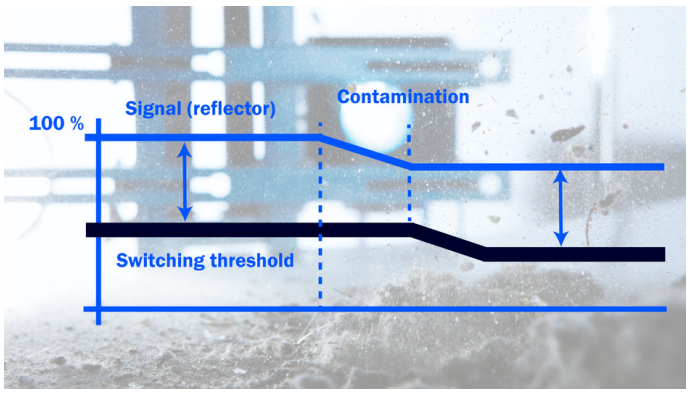
The GLL70 has a fast response time, high transmitting power, and a large detection range – for fast and precise applications in harsh environments. The AutoAdapt technology reduces cleaning and maintenance cycles, which increases the efficiency and reliability of the sensor.

High precision thanks to fast response time

The GLL70 is characterized by its response time of just 50 µs. This speed makes it the right choice for applications with fast objects and processes. Even small objects are detected precisely.

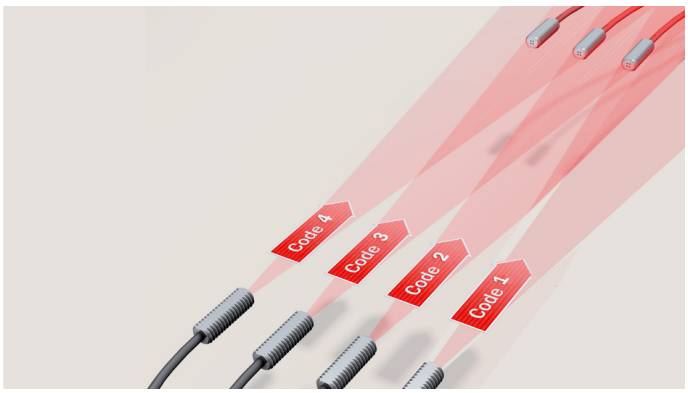
Reliable detection in harsh environments

The GLL70 offers a high transmitting power and a large detection range. These properties make it suitable for use in harsh environments where dirt, chemicals or vapors make detection difficult.



Efficient sensor maintenance with AutoAdapt

AutoAdapt technology enables automatic maintenance of the sensor. This function ensures continuous monitoring and adjustment, which increases the efficiency and reliability of the sensor.



Anti-interference function

By setting different light emission frequencies, mutual interference between fiber optic sensors used next to each other can be prevented. The function makes it possible to install fiber-optic heads from up to four fiber-optic sensors next to each other.

Select the right product variant and accessories directly online. There you will also find example applications as well as downloads such as CAD dimensional models, operating instructions and software.
www.sick.com/GLL70

SICK AG
WALDKIRCH
GERMANY
SICK.COM

SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnership with our customers is more than just a promise: Together, we optimize productivity, elevate quality, protect health and safety, and sustain the future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions.

SICK

Sensor Intelligence