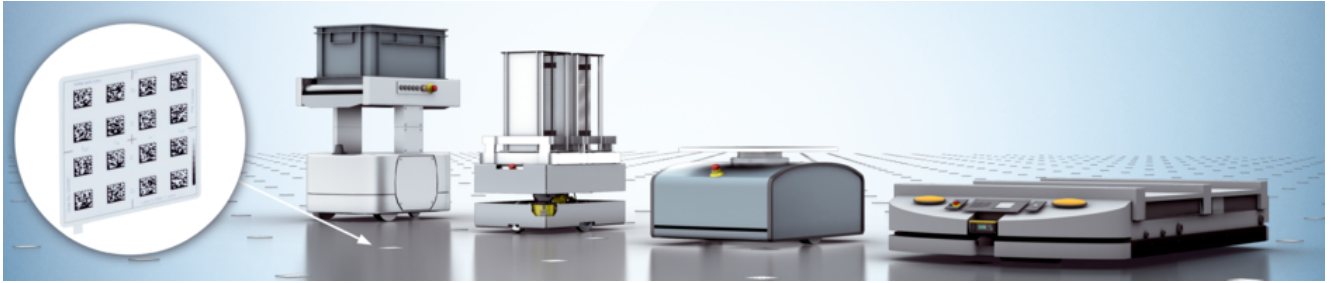


Advantages



Grid localization of AGVs has never been so easy

The sensors from the GLS6 product family have been specially developed for grid localization of AGVs in warehouse logistics. The narrow design allows this localization solution to be used in AGVs of all sizes. Customizable multi-code labels in grid form are initially applied to the travel paths of the AGV. With the help of the multi-code labels, the GLS6 then precisely determines the respective position of an AGV in a room – without it having to reduce its travel speed. The GLS6 offers maximum flexibility, be it for variable reading distances, adaptation of the code information by the customer or the data format required for transmission to the control. See for yourself.



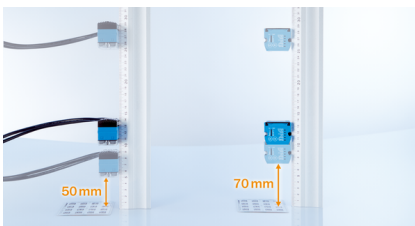
Fits even into the smallest AGVs

Thanks to its compact design with a swivel connector or flexible cable routing, the GLS6 can be mounted even where installation space is limited and aligned in seconds thanks to the integrated angle sensor. With the help of the auto set-up function, the GLS6 is ready to go just as quickly.



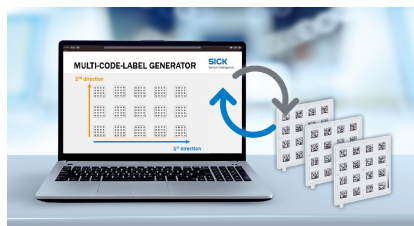
Full steam ahead!

Reliable reading of data matrix or QR codes at an AGV travel speed of up to 5 m/s ensures high productivity.



Suitable for all ground clearances

Thanks to variable focus or auto focus, varying reading distances do not play a role for the GLS6. The GLS6 is therefore suitable for all AGV chassis sizes.



Code labels can be adapted to customer needs

With the help of the SICK Label Generator, the code content can be adapted to the respective application. You can either print labels yourself or obtain them from SICK with peel-off aid included.



A device that “speaks” all languages

The GLS6 covers all interfaces, transmits the read results to the control in the desired data format and can thus be installed in any type of AGV.



The compact GLS6 for grid localization of AGVs offers maximum flexibility when it comes to small installation space, variable reading distances and data output formats, and the identification of customer-specific code information.



Technical data overview

Focus	Adjustable focus (manually) / teach auto focus when teaching-in the working distance using a configuration tool (depending on type)
Reading distance	50 mm ... 500 mm (depending on type)
Enclosure rating	IP54 / IP65 (depending on type)
Ethernet	✓, TCP/IP
PROFINET	✓
EtherNet/IP™	✓
Serial	✓ / RS-232 / ✓ / RS-232 / RS-422 (depending on type)
CAN	✓
CANopen	✓
USB	✓
Weight	165 g / 170 g (depending on type)

Product description

The GLS6 product family encompasses compact sensors for localization of automated guided vehicles (AGVs). The sensors reliably detect Data Matrix or QR code labels which are attached to the floor as rasters for orientation for the AGV and deliver position data to the vehicle control. High travel speeds are no problem for the GLS6. The GLS6 can localize perfectly on contaminated ground and fit even in the smallest AGV due to its compact size. Thanks to the optional variable focus or auto focus, the localization solution is well-suited for all ground clearances. Thanks to the integrated alignment aid, mounting is also child's play. And parameter back-up ensures process stability during device replacement.

At a glance

- Variable reading distances of 50 mm to 500 mm
- Reads Data Matrix and QR code labels
- Small housing with rotatable plug unit and or plug unit with flexible cable routing
- Integrated angle measurement as alignment aid for mounting
- Simple, reliable parameter back-up
- No sensitivity to ambient light

Your benefits

- Thanks to the optional variable focus or auto focus, it is well-suited for all ground clearances (vehicle sizes)
- Real-time image processing enables high travel speeds, thus increasing operating efficiency
- Fits into even the smallest AGV thanks to its compact size
- Plug and play solution with integrated angle measurement ensures quick and easy commissioning
- Code labels can be individualized for self-printing, ensuring a high level of flexibility and easy solutions
- Short downtime when devices are replaced thanks to parameter back-up

Fields of application

- Grid localization of automated guided vehicles

Ordering information

Other models and accessories → www.sick.com/GLS6

- **Overrun speed:** ≤ 5 m/s
- **2D code types:** Data Matrix ECC200, QR code

Reading distance	Enclosure rating	Communication interface	Type	Part no.
50 mm ... 300 mm	IP54	Ethernet PROFINET EtherNet/IP™ Serial CAN CANopen	V2D611G-MMSBE4	1114539
70 mm ... 500 mm	IP65	Ethernet PROFINET EtherNet/IP™ Serial CAN CANopen USB USB 2.0 (for parameterization only)	V2D621G-2MSXBB5	1101204

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