



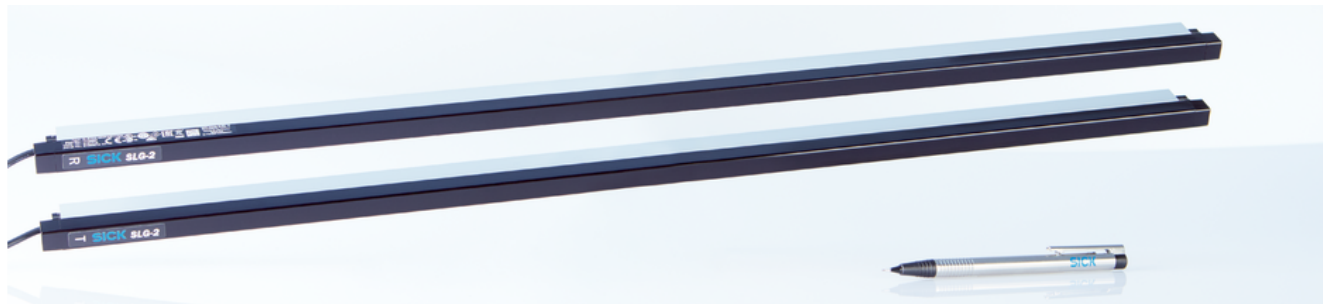
SLG-2

For a wide range of detection and measuring tasks – light grid in very compact housing

SWITCHING AUTOMATION LIGHT GRIDS

SICK
Sensor Intelligence.

Compact design

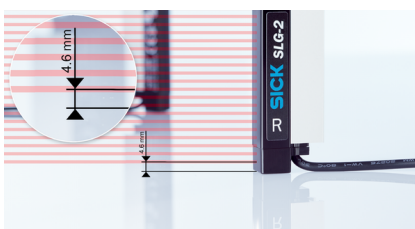


Simple machine integration thanks to compact design

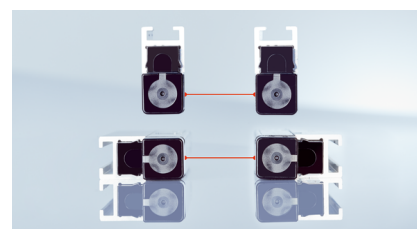
In modern machine designs, space is usually quite limited. In many places, every millimeter counts and it is important that dimensions are very compact. These are just the right application conditions for the SLG-2 light grid – the powerful solution for classic detection and measuring tasks. The SLG-2 is available in slim and flat variants, which means it can be integrated very well into various tight installation spaces, offering you a high level of flexibility for machine integration.



Small size: The housing measures 11.8 mm x 24.1 mm with flexible length.



No blind zone: Thanks to the cable connection at the rear of the housing, the distance from the edge of the housing to the first light beam is only 4.6 mm.

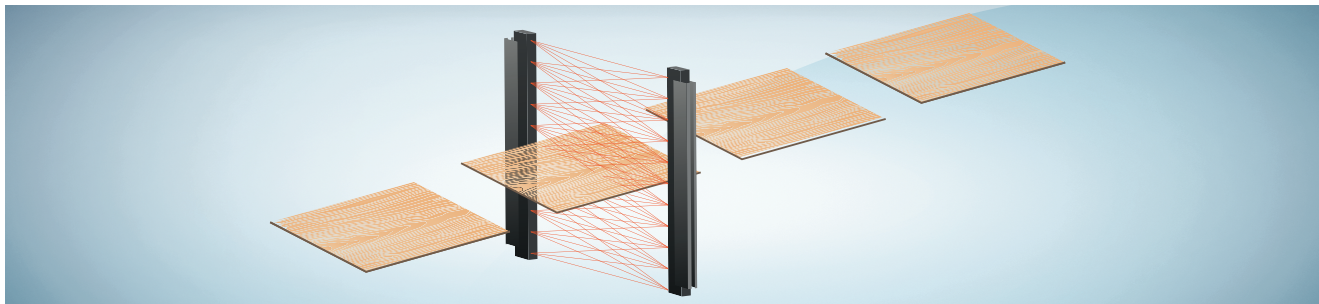


Two installation variants: The beam can exit either from the short side (in the slim variant) or from the long side (in the flat variant) of the device.



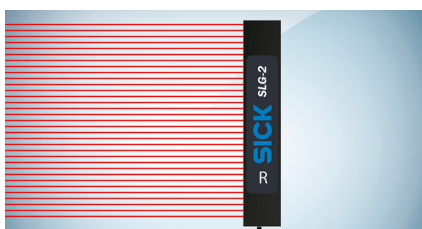
The SLG-2 can be integrated into nearly any application thanks to its low space requirements and two alignment variants.

Detection of narrow objects

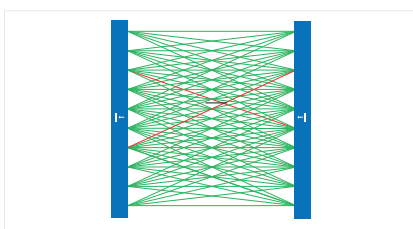


Very high precision for the detection of narrow objects

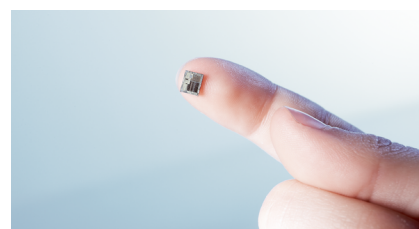
Various features of the compact SLG-2 guarantee particularly good detection performance: In addition to a minimum beam separation of just 10 mm, the cross-beam function with up to 9 light beams also increases the resolution. That means the SLG-2 is suitable for the precise and economical detection and measurement of very flat objects such as metal and wooden panels.



Minimum beam separation of 10 mm in a very compact housing.



Precise object detection thanks to cross beam function with up to 9 light beams.

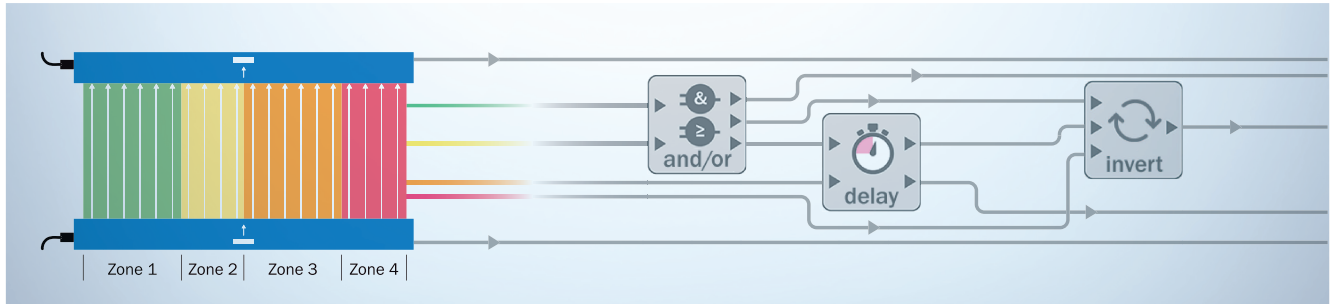


Fast response times due to optimized ASIC light grid.



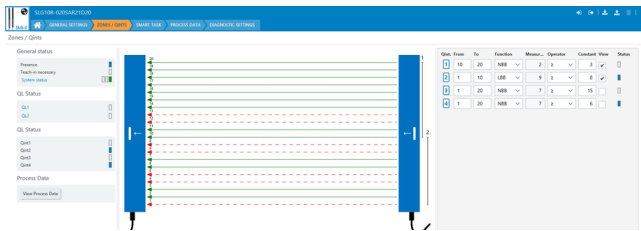
Small beam separation and the cross-beam function make for excellent resolution: it allows particularly thin objects to be detected just as reliably as when several narrow objects pass through the light grid at the same time.

Processing included

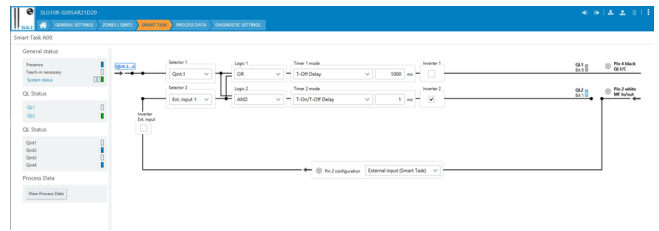


Simple evaluation functions and classifications in the SLG-2 via SOPAS ET.

Measurement data can be used extensively with the SLG-2 thanks to Smart Tasks and the IO-Link interface. With the help of zone and logic functions, simple application tasks can be executed in the device. In the process, the intelligent sensor provides valuable diagnostic information about its condition. For example, the light grid signals when contamination impairs its performance too much. This data creates a foundation for condition-based maintenance and high availability.



Easy operation due to simple menu navigation and a clear display.



Thanks to simple measurement, zone and logic functions, tasks can be solved in the light grid.



The SLG-2 performs simple measuring and classification tasks internally and, depending on the application, eliminates the need for additional downstream hardware. A wide range of diagnostic information reduces system downtime and significantly increases cost-effectiveness.



Technical data overview

Operating range	1.5 m ... 3.5 m (depending on type)
Length of cable	150 mm



Product description

The SLG-2 is an automation light grid for various detection and measuring tasks. It features two optics variants: One with frontal and one with side light emission. They allow for the narrow light grid housing to be integrated into almost any application. The SLG-2 has no blind zone and is available with detection heights from 100 mm to 2,400 mm. Thanks to the 9x cross-beam function, the light grid achieves very high resolution and reliably detects even very thin objects. Smart Tasks and the powerful IO-Link COM3 interface make processing of measurement data in the device possible. The detailed diagnostic information of the SLG-2 can be used for condition-based device maintenance.

At a glance

- Housing dimensions: 12 mm x 24 mm, detection heights: 100 mm to 2,400 mm
- Slim and flat housing variants
- Cross-beam function: Up to 9 beams
- Short response times due to its own light grid ASIC
- Detection, classification and measurement functions as well as Smart Tasks
- Detailed diagnostic information
- IO-Link COM3 interface

Your benefits

- Simple integration in tight installation spaces thanks to the narrow housing and no blind zone
- Detection of the thinnest objects such as envelopes or metal sheets thanks to cross-beam function.
- Precise leading edge detection thanks to short response times and high resolution
- Integrated measurement, classification and Smart Task functions reduce the effort required for data evaluation and implementation.
- Maximum flexibility for individual evaluation of measurement data through single-beam evaluation.
- Maximum monitoring and process reliability thanks to detailed diagnostic functions
- Quick and easy configuration via IO-Link and SOPAS ET

Fields of application

- Protrusion monitoring on the conveying equipment
- Height detection of stored goods in vertical storage systems
- Leading edge detection in conveyor systems
- Detection of excess bag lengths
- Parking assistance in automated parking systems
- Detection of people sizes in customs controls

Ordering information

Other models and accessories → www.sick.com/SLG-2

- **Beam separation:** 10 mm

Operating range	Optical light exit	Detection height	Type	Part no.
1.5 m	Flat	200 mm	SLG10S-020FER11D20	1118156
			SLG10S-020FER21D20	1116856
	Slim	200 mm	SLG10S-020SER11D40	1119168
			SLG10S-020SER21D20	1116855
1.7 m	Slim	400 mm	SLG10S-040SCR21A00	1116763
3.5 m	Flat	100 mm	SLG10S-010FAR11D30	1114644

Operating range	Optical light exit	Detection height	Type	Part no.
		200 mm	SLG10S-020FAR21A00	1114758
		300 mm	SLG10S-030FAR11D40	1116760
		600 mm	SLG10S-060FAR11A00	1118007
		700 mm	SLG10S-070FAR11A00	1120075
		1,400 mm	SLG10S-140FAR21A00	1120077
		1,800 mm	SLG10S-180FAR21A00	1120079
		2,400 mm	SLG10S-240FAR21A00	1114760
	Slim	100 mm	SLG10S-010SAR11A00	1118005
			SLG10S-010SAR21A00	1118083
		200 mm	SLG10S-020SAR21D40	1118455
			SLG10S-030SAR11A00	1118006
		300 mm	SLG10S-030SAR21A00	1120072
			SLG10S-040SAR11A00	1120073
		500 mm	SLG10S-050SAR11A00	1120074
		600 mm	SLG10S-060SAR11D41	1118008
		800 mm	SLG10S-080SAR21A00	1117749
		1,000 mm	SLG10S-100SAR21A00	1118505
		1,200 mm	SLG10S-120SAR11A00	1120076
		1,600 mm	SLG10S-160SAR11A00	1120078
		2,000 mm	SLG10S-200SAR11A00	1120080

- **Beam separation:** 25 mm

Operating range	Optical light exit	Detection height	Type	Part no.
1.5 m	Flat	200 mm	SLG25S-020FER21A00	1120083
		1,200 mm	SLG25S-120FER21A00	1120096
1.7 m	Flat	1,800 mm	SLG25S-180FCR11D41	1117811

Operating range	Optical light exit	Detection height	Type	Part no.
3.5 m	Flat	100 mm	SLG25S-010FAR11A00	1120081
		300 mm	SLG25S-030FAR11A00	1120086
		400 mm	SLG25S-040FAR21A00	1120088
			SLG25S-040FAR21D41	1120089
		500 mm	SLG25S-050FAR21D40	1114572
		600 mm	SLG25S-060FAR21A00	1120091
		800 mm	SLG25S-080FAR11A00	1120094
			SLG25S-080FAR21D40	1120536
		1,400 mm	SLG25S-140FAR11A00	1120097
		2,000 mm	SLG25S-200FAR21A00	1120099
		2,400 mm	SLG25S-240FAR21D41	1120101
		Slim	300 mm	SLG25S-030SAR11D41
	SLG25S-030SAR21A00			1120085
	400 mm		SLG25S-040SAR11A00	1120087
			SLG25S-040SAR21A00	1114569
	600 mm		SLG25S-060SAR11A00	1120090
			SLG25S-060SAR21A00	1120092
	700 mm		SLG25S-070SAR21A00	1120093
	1,000 mm		SLG25S-100SAR11A00	1120095
	1,200 mm		SLG25S-120SAR21A00	1120109
	1,600 mm		SLG25S-160SAR11A00	1120098
	1,800 mm		SLG25S-180SAR11D41	1116761
	2,200 mm	SLG25S-220SAR21D41	1120100	

- **Beam separation:** 50 mm

Operating range	Optical light exit	Detection height	Type	Part no.
1.5 m	Slim	1,400 mm	SLG50S-140SER11A00	1117810
1.7 m	Slim	700 mm	SLG50S-070SCR11A00	1114784
		1,400 mm	SLG50S-140SCR11A00	1116854
3.5 m	Flat	200 mm	SLG50S-020FAR11A00	1120102
		300 mm	SLG50S-030FAR21A00	1120104
		400 mm	SLG50S-040FAR21A00	1120106
		700 mm	SLG50S-070FAR21D02	1119368
		2,400 mm	SLG50S-240FAR21A00	1120113
	Slim	200 mm	SLG50S-020SAR11D20	1120103
		300 mm	SLG50S-030SAR11A00	1120105
		400 mm	SLG50S-040SAR11D30	1120107
		500 mm	SLG50S-050SAR11A00	1120108
		600 mm	SLG50S-060SAR21A00	1119792
		800 mm	SLG50S-080SAR21A00	1117777
		1,200 mm	SLG50S-120SAR21A00	1120142
		1,600 mm	SLG50S-160SAR21A00	1120110
		2,000 mm	SLG50S-200SAR11A00	1120111
2,200 mm	SLG50S-220SAR21A00	1120112		

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