

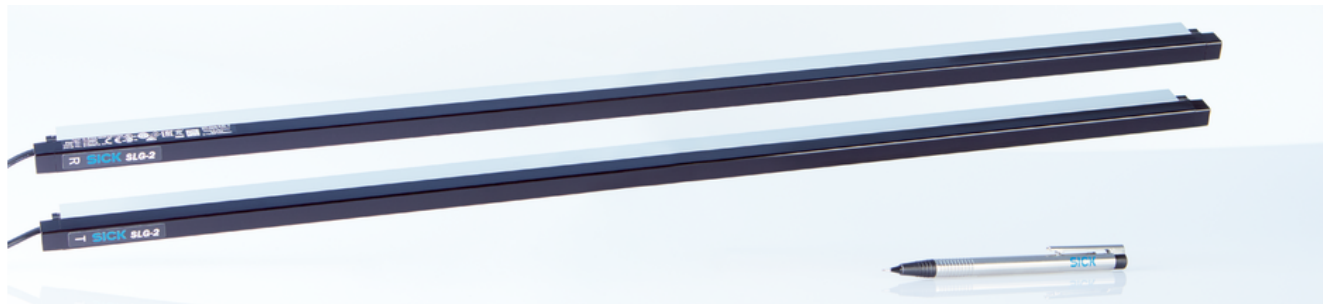


SLG-2

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

SICK
Sensor Intelligence.

Compact design

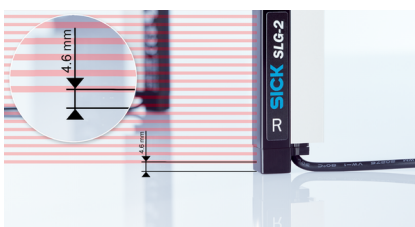


Simple machine integration thanks to compact design

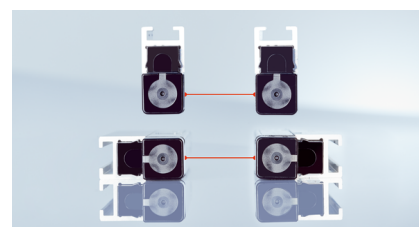
In modern machine designs, space is usually quite limited. In many places, every millimeter counts and it is important that dimensions are very compact. These are just the right application conditions for the SLG-2 light grid – the powerful solution for classic detection and measuring tasks. The SLG-2 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.

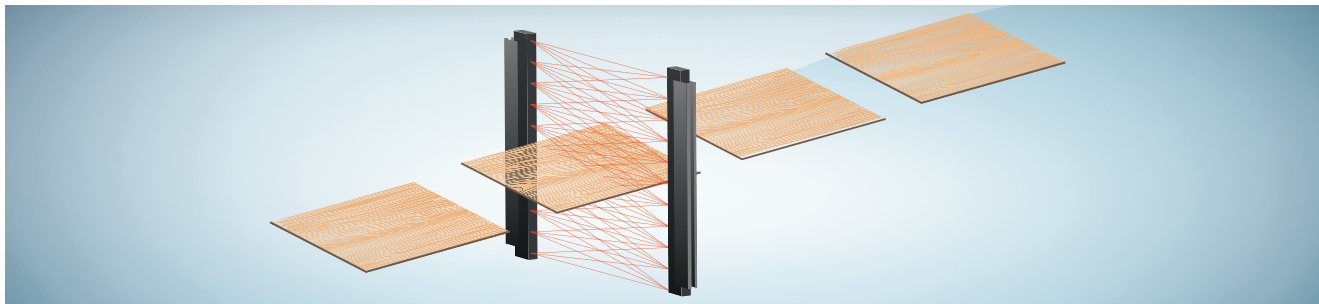


Two installation variants: The beam can exit either from the short side (in the slim variant) or from the long side (in the flat variant) of the device.



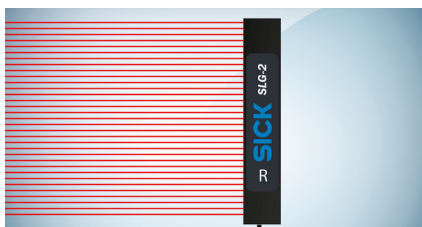
The SLG-2 can be integrated into nearly any application thanks to its low space requirements and two alignment variants.

Detection of narrow objects

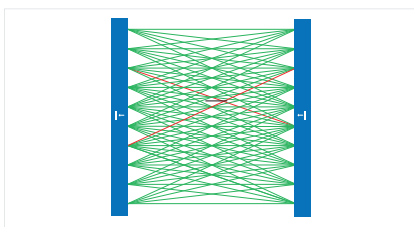


Very high precision for the detection of narrow objects

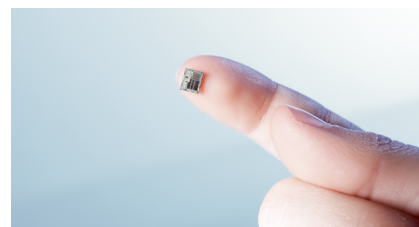
Various features of the compact SLG-2 guarantee particularly good detection performance: In addition to a minimum beam separation of just 10 mm, the cross-beam function with up to 9 light beams also increases the resolution. That means the SLG-2 is suitable for the precise and economical detection and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

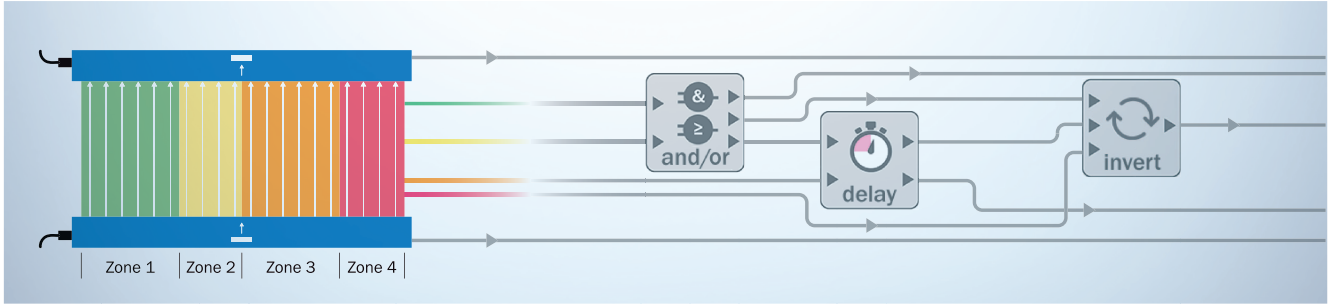


Fast response times due to optimized ASIC light grid.



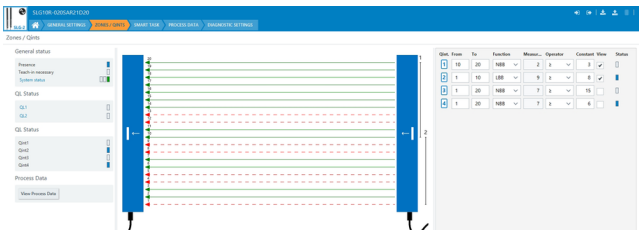
Small beam separation and the cross-beam function make for excellent resolution: it allows particularly thin objects to be detected just as reliably as when several narrow objects pass through the light grid at the same time.

Processing included

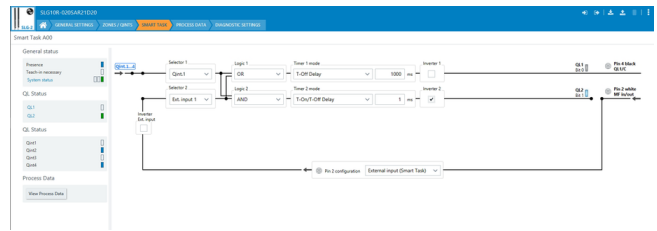


Simple evaluation functions and classifications in the SLG-2 via SOPAS ET.

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

Communication interface	IO-Link
Operating range	1.5 m ... 6 m (depending on type)
Sensing range, parallel beam (recommended)	70 mm ... 6,000 mm (depending on type)
Beam separation	10 mm 25 mm 50 mm (depending on type)
Optical light exit	Slim Flat (depending on type)
Detection height	100 mm ... 2,400 mm (depending on type)
Connection type	Cable with M8 male connector, 4-pin Cable with M12 male connector, 4-pin (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

- **Communication interface:** IO-Link
- **Optical light exit:** Slim

Beam separation	Sensing range, parallel beam (recommended)	Operating range	Detection height	Length of cable	Type	Part no.
10 mm	440 mm ... 1,700 mm, very high ambient light immunity	1.7 m	400 mm	150 mm	SLG10S-040SCR21A00	1116763
					SLG10S-040SCR21D05	1137190
					SLG10S-040SCR21D15	1137243
	440 mm ... 3,500 mm, Standard version	3.5 m	100 mm	150 mm	SLG10S-010SAR11A00	1118005
					SLG10S-010SAR21A00	1118083
10 mm	440 mm ... 3,500 mm, Standard version	3.5 m	100 mm	150 mm	SLG10S-010SAR21D0D	1133182
					SLG10S-010SAR21D10	1133012
					SLG10S-010SAR21D40	1132909
			200 mm	150 mm	SLG10S-020SAR21A00	1133010
					SLG10S-020SAR21D10	1133013
					SLG10S-020SAR21D1D	1133014
					SLG10S-020SAR21D40	1118455
			300 mm	150 mm	SLG10S-030SAR11A00	1118006
					SLG10S-030SAR21A00	1120072
			400 mm	150 mm	SLG10S-040SAR11A00	1120073
					SLG10S-040SAR21A00	1130309
					SLG10S-040SAR21D41	1136616
			500 mm	150 mm	SLG10S-050SAR11A00	1120074
					SLG10S-050SAR21A00	1134430
			600 mm	150 mm	SLG10S-060SAR11D41	1118008
					SLG10S-060SAR21A00	1138200
			700 mm	150 mm	SLG10S-070SAR11A00	1129152
					SLG10S-070SAR11D40	1132678
					SLG10S-070SAR21A00	1141510
			800 mm	150 mm	SLG10S-080SAR21A00	1117749
			1,000 mm	150 mm	SLG10S-100SAR21A00	1118505
			1,200 mm	150 mm	SLG10S-120SAR11A00	1120076
					SLG10S-120SAR21A00	1128345
			1,400 mm	150 mm	SLG10S-140SAR21A00	1127133
1,600 mm	150 mm	SLG10S-160SAR11A00	1120078			
		SLG10S-160SAR21A00	1127134			
1,800 mm	150 mm	SLG10S-180SAR21D40	1138346			
2,000 mm	150 mm	SLG10S-200SAR11A00	1120080			
		SLG10S-200SAR21A00	1125650			
2,400 mm	150 mm	SLG10S-240SAR21A00	1129986			

Beam separation	Sensing range, parallel beam (recommended)	Operating range	Detection height	Length of cable	Type	Part no.
10 mm	500 mm ... 2,700 mm, Increased sensing range, very high ambient light immunity	2.7 m	200 mm	150 mm	SLG10S-020SDR11A00	1128840
	500 mm ... 6,000 mm, Increased sensing range	6 m	100 mm	150 mm	SLG10S-010SBR21A00	1129507
					SLG10S-010SBR21D40	1129506
					SLG10S-010SBR21D4D	1148093
			200 mm	150 mm	SLG10S-020SBR11A00	1127471
					SLG10S-020SBR11D40	1128783
					SLG10S-020SBR11D41	1128784
					SLG10S-020SBR11D4D	1128785
					SLG10S-020SBR21A00	1133011
					SLG10S-020SBR21A00	1133011
			800 mm	150 mm	SLG10S-080SBR11A00	1128792
	1,600 mm	150 mm	SLG10S-160SBR21A00	1133439		
	2,400 mm	150 mm	SLG10S-240SBR11A00	1128790		
			SLG10S-240SBR21A00	1144986		
	70 mm ... 1,500 mm, for small sensing ranges	1.5 m	100 mm	150 mm	SLG10S-010SER11A00	1126511
					SLG10S-010SER11D40	1131252
					SLG10S-010SER21D40	1132190
			200 mm	150 mm	SLG10S-020SER11D40	1119168
					SLG10S-020SER21D20	1116855
			300 mm	150 mm	SLG10S-030SER11A00	1133687
					SLG10S-030SER21A00	1147832
					SLG10S-030SER21D11	1132459
					SLG10S-030SER21D40	1131773
			400 mm	150 mm	SLG10S-040SER11D40	1140926
					SLG10S-040SER21D1D	1140185
			500 mm	150 mm	SLG10S-050SER21D40	1123179
			600 mm	150 mm	SLG10S-060SER11D40	1140925
					SLG10S-060SER21D1D	1132380
			700 mm	150 mm	SLG10S-070SER11A00	1132379
	1,000 mm	150 mm	SLG10S-100SER21A00	1141310		
	1,400 mm	150 mm	SLG10S-140SER21A00	1145856		

Beam separation	Sensing range, parallel beam (recommended)	Operating range	Detection height	Length of cable	Type	Part no.
25 mm	440 mm ... 1,700 mm, very high ambient light immunity	1.7 m	300 mm	150 mm	SLG25S-030SCR11A00	1121710
			400 mm	150 mm	SLG25S-040SCR11A00	1121711
			600 mm	150 mm	SLG25S-060SCR11A00	1121712
	440 mm ... 3,500 mm, Standard version	3.5 m	100 mm	150 mm	SLG25S-010SAR21D20	1121762
			200 mm	150 mm	SLG25S-020SAR11D30	1121763
					SLG25S-020SAR21D2D	1124438
					SLG25S-020SAR21D30	1121764
			300 mm	150 mm	SLG25S-030SAR11D41	1120084
					SLG25S-030SAR21A00	1120085
			400 mm	150 mm	SLG25S-040SAR11A00	1120087
					SLG25S-040SAR21A00	1114569
					SLG25S-040SAR21D2D	1124439
			500 mm	150 mm	SLG25S-050SAR21A00	1126996
			600 mm	150 mm	SLG25S-060SAR11A00	1120090
					SLG25S-060SAR21A00	1120092
					SLG25S-060SAR21D05	1142247
			700 mm	150 mm	SLG25S-070SAR21A00	1120093
			800 mm	150 mm	SLG25S-080SAR21A00	1123384
25 mm	440 mm ... 3,500 mm, Standard version	3.5 m	800 mm	150 mm	SLG25S-080SAR21D15	1128863
			1,000 mm	150 mm	SLG25S-100SAR11A00	1120095
					SLG25S-100SAR21A00	1128346
					SLG25S-100SAR21D2D	1124440
			1,200 mm	150 mm	SLG25S-120SAR21A00	1120109
			1,400 mm	150 mm	SLG25S-140SAR11D05	1126844
			1,600 mm	150 mm	SLG25S-160SAR11A00	1120098
					SLG25S-160SAR21A00	1132417
			1,800 mm	150 mm	SLG25S-180SAR11D41	1116761
					SLG25S-180SAR21A00	1127917

Beam separation	Sensing range, parallel beam (recommended)	Operating range	Detection height	Length of cable	Type	Part no.
	500 mm ... 2,700 mm, Increased sensing range, very high ambient light immunity	2.7 m	2,000 mm	150 mm	SLG25S-200SAR21A00	1138088
			2,200 mm	150 mm	SLG25S-220SAR21D41	1120100
			200 mm	150 mm	SLG25S-020SDR11A00	1128841
			1,200 mm	150 mm	SLG25S-120SDR11D40	1144368
	500 mm ... 6,000 mm, Increased sensing range	6 m	200 mm	150 mm	SLG25S-020SBR11A00	1128786
				150 mm	SLG25S-020SBR21A00	1147035
			800 mm	150 mm	SLG25S-080SBR11A00	1128794
			1,200 mm	150 mm	SLG25S-120SBR21A00	1134443
			1,400 mm	150 mm	SLG25S-140SBR21A00	1141855
			1,600 mm	150 mm	SLG25S-160SBR11A00	1127472
			2,200 mm	150 mm	SLG25S-220SBR21A00	1147036
			2,400 mm	150 mm	SLG25S-240SBR21A00	1144985
					SLG25S-240SBR21D0D	1144984
	70 mm ... 1,500 mm, for small sensing ranges	1.5 m	100 mm	150 mm	SLG25S-010SER11A00	1122010
			200 mm	150 mm	SLG25S-020SER11A00	1124697
			500 mm	150 mm	SLG25S-050SER21A00	1129253
				150 mm	SLG25S-050SER21D40	1123180
			1,000 mm	150 mm	SLG25S-100SER21A00	1124803
			1,200 mm	150 mm	SLG25S-120SER21A00	1121017
			2,400 mm	150 mm	SLG25S-240SER11A00	1143334
50 mm	440 mm ... 1,700 mm, very high ambient light immunity	1.7 m	700 mm	150 mm	SLG50S-070SCR11A00	1114784
50 mm		1.7 m	800 mm	150 mm	SLG50S-080SCR11A00	1124876
	440 mm ... 3,500 mm, Standard version	3.5 m	1,400 mm	150 mm	SLG50S-140SCR11A00	1116854
			200 mm	150 mm	SLG50S-020SAR11D20	1120103
			300 mm	150 mm	SLG50S-030SAR11A00	1120105
			400 mm	150 mm	SLG50S-040SAR11D30	1120107
			500 mm	150 mm	SLG50S-050SAR11A00	1120108
			600 mm	150 mm	SLG50S-060SAR21A00	1119792
			800 mm	150 mm	SLG50S-080SAR21A00	1117777
			SLG50S-080SAR21D2D	1147694		
			900 mm	150 mm	SLG50S-090SAR21A00	1121856

Beam separation	Sensing range, parallel beam (recommended)	Operating range	Detection height	Length of cable	Type	Part no.
			1,000 mm	150 mm	SLG50S-100SAR21A00	1121957
			1,200 mm	150 mm	SLG50S-120SAR11A00	1137186
					SLG50S-120SAR21A00	1120142
					SLG50S-120SAR21D05	1144369
			1,400 mm	150 mm	SLG50S-140SAR11D15	1126843
					SLG50S-140SAR21A00	1124880
			1,600 mm	150 mm	SLG50S-160SAR11A00	1126577
					SLG50S-160SAR21A00	1120110
			1,800 mm	150 mm	SLG50S-180SAR21A00	1131168
			2,000 mm	150 mm	SLG50S-200SAR11A00	1120111
					SLG50S-200SAR21A00	1126576
			2,200 mm	150 mm	SLG50S-220SAR21A00	1120112
			SLG50S-220SAR21D05	1138071		
	500 mm ... 2,700 mm, In- creased sens- ing range, very high ambient light immunity	2.7 m	200 mm	150 mm	SLG50S-020SDR11A00	1128842
			1,400 mm	150 mm	SLG50S-140SDR11A00	1114761
	500 mm ... 6,000 mm, Increased sensing range	6 m	100 mm	150 mm	SLG50S-010SBR21D11	1142533
			200 mm	150 mm	SLG50S-020SBR11A00	1128787
			500 mm	150 mm	SLG50S-050SBR11A00	1138685
			2,400 mm	150 mm	SLG50S-240SBR21A00	1144987
	70 mm ... 1,500 mm, for small sens- ing ranges	1.5 m	1,400 mm	150 mm	SLG50S-140SER11A00	1117810

- **Communication interface:** IO-Link
- **Optical light exit:** Flat

Beam separation	Sensing range, parallel beam (recommended)	Operating range	Detection height	Length of cable	Type	Part no.
10 mm	440 mm ... 3,500 mm, Stan- dard version	3.5 m	100 mm	150 mm	SLG10S-010FAR11D30	1114644
					SLG10S-010FAR21D40	1121270
					SLG10S-010FAR21D42	1129196
			200 mm	150 mm	SLG10S-020FAR21A00	1114758
					SLG10S-020FAR21D40	1121259
					SLG10S-020FAR21D45	1137189
300 mm	150 mm	SLG10S-030FAR11D40	1116760			
10 mm	440 mm ... 3,500 mm, Stan- dard version	3.5 m	300 mm	150 mm	SLG10S-030FAR21D40	1121760
			400 mm	150 mm	SLG10S-040FAR21A00	1131485
					SLG10S-040FAR21D41	1121761

Beam separation	Sensing range, parallel beam (recommended)	Operating range	Detection height	Length of cable	Type	Part no.
			600 mm	150 mm	SLG10S-060FAR11A00	1118007
			700 mm	150 mm	SLG10S-070FAR11A00	1120075
			800 mm	150 mm	SLG10S-080FAR21D40	1143049
			1,000 mm	150 mm	SLG10S-100FAR21D40	1121271
			1,200 mm	150 mm	SLG10S-120FAR11A00	1121381
					SLG10S-120FAR21A00	1124877
			1,400 mm	150 mm	SLG10S-140FAR21A00	1120077
			1,600 mm	150 mm	SLG10S-160FAR21A00	1124878
			1,800 mm	150 mm	SLG10S-180FAR21A00	1120079
			2,000 mm	150 mm	SLG10S-200FAR21A00	1140722
	2,400 mm	150 mm	SLG10S-240FAR21A00	1114760		
	500 mm ... 6,000 mm, Increased sensing range	6 m	200 mm	150 mm	SLG10S-020FBR11A00	1128782
			300 mm	150 mm	SLG10S-030FBR21A00	1141095
					SLG10S-030FBR21D02	1141094
					SLG10S-030FBR21D0D	1141093
			800 mm	150 mm	SLG10S-080FBR11A00	1128793
			1,600 mm	150 mm	SLG10S-160FBR21D40	1146348
					SLG10S-160FBR21D45	1142221
			2,200 mm	150 mm	SLG10S-220FBR21D45	1143381
	2,400 mm	150 mm	SLG10S-240FBR11A00	1128791		
	70 mm ... 1,500 mm, for small sensing ranges	1.5 m	100 mm	150 mm	SLG10S-010FER21A00	1138947
			200 mm	150 mm	SLG10S-020FER11D20	1118156
					SLG10S-020FER21D20	1116856
			300 mm	150 mm	SLG10S-030FER11D40	1121273
					SLG10S-030FER21D40	1141006
			900 mm	150 mm	SLG10S-090FER21A00	1134461
	1,400 mm	150 mm	SLG10S-140FER21A00	1134460		
25 mm	440 mm ... 1,700 mm, very high ambient light immunity	1.7 m	1,800 mm	150 mm	SLG25S-180FCR11D41	1117811
	440 mm ... 3,500 mm, Standard version	3.5 m	100 mm	150 mm	SLG25S-010FAR11A00	1120081
			300 mm	150 mm	SLG25S-030FAR11A00	1120086
					SLG25S-040FAR21A00	1120088
			400 mm	150 mm	SLG25S-040FAR21D41	1120089
					500 mm	150 mm
			600 mm	150 mm	SLG25S-050FAR21D40	1114572
	600 mm	150 mm	SLG25S-060FAR11D31	1121765		

Beam separation	Sensing range, parallel beam (recommended)	Operating range	Detection height	Length of cable	Type	Part no.
					SLG25S-060FAR21A00	1120091
			700 mm	150 mm	SLG25S-070FAR21A00	1143617
			800 mm	150 mm	SLG25S-080FAR11A00	1120094
					SLG25S-080FAR21D40	1120536
			1,000 mm	150 mm	SLG25S-100FAR21D40	1121272
			1,400 mm	150 mm	SLG25S-140FAR11A00	1120097
			2,000 mm	150 mm	SLG25S-200FAR21A00	1120099
			2,400 mm	150 mm	SLG25S-240FAR21A00	1134165
					SLG25S-240FAR21D41	1120101
	500 mm ... 6,000 mm, Increased sensing range	6 m	300 mm	150 mm	SLG25S-030FBR21D0D	1147970
			800 mm	150 mm	SLG25S-080FBR11A00	1128795
			1,400 mm	150 mm	SLG25S-140FBR11A00	1129744
			1,800 mm	150 mm	SLG25S-180FBR11A00	1114720
			SLG25S-180FBR11D41	1114759		
	70 mm ... 1,500 mm, for small sensing ranges	1.5 m	200 mm	150 mm	SLG25S-020FER21A00	1120083
			300 mm	150 mm	SLG25S-030FER21A00	1121699
			500 mm	150 mm	SLG25S-050FER21A00	1129508
			600 mm	150 mm	SLG25S-060FER21A00	1137381
			1,000 mm	150 mm	SLG25S-100FER21A00	1121698
			1,200 mm	150 mm	SLG25S-120FER21A00	1120096
50 mm	440 mm ... 3,500 mm, Standard version	3.5 m	200 mm	150 mm	SLG50S-020FAR11A00	1120102
			300 mm	150 mm	SLG50S-030FAR21A00	1120104
			400 mm	150 mm	SLG50S-040FAR21A00	1120106
			600 mm	150 mm	SLG50S-060FAR11D1D	1124930
			700 mm	150 mm	SLG50S-070FAR21D02	1119368
			1,200 mm	150 mm	SLG50S-120FAR11A00	1137187
					SLG50S-120FAR11D02	1130679
			1,600 mm	150 mm	SLG50S-160FAR11A00	1126861
			1,800 mm	150 mm	SLG50S-180FAR11A00	1126862
	2,400 mm	150 mm	SLG50S-240FAR21A00	1120113		
	500 mm ... 6,000 mm, Increased sensing range	6 m	800 mm	150 mm	SLG50S-080FBR11A00	1128796
			1,600 mm	150 mm	SLG50S-160FBR21D0D	1141970

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