



MLG-2 Prime

Configure measurement tasks with ease via the display

MEASURING AUTOMATION LIGHT GRIDS

SICK
Sensor Intelligence.



Technical data overview

Communication interface	IO-Link (V1.1) Analog (Current)
Beam separation	5 mm ... 50 mm (depending on type)
Operating range	5 m / 8.5 m (depending on type)
Detection height	140 mm ... 3,140 mm (depending on type)
Response time	6 ms ... 53.6 ms (depending on type)



IO-Link



Product description

The continued systematic development in the field of measuring automation light grid: With the MLG-2 product family, SICK always offers the perfect solution for a variety of applications in the logistics automation and machine building industries. Simple configuration and diagnostics via a clearly arranged display: The MLG-2 Prime is suitable for all standard applications, including protrusion monitoring as well as object height and width measuring. Optical synchronization eliminates the need for wiring between the sender and receiver. The connection to the controls is established via push-pull switching outputs or analog outputs. Data can be output directly via the IO-Link interface with accompanying functional modules. The MLG-2 Prime is particularly suitable for measuring the height and width of objects. The new "object re-detection" function saves time and resources. The MLG-2 Prime can be ordered in a pre-configured version.

At a glance

- High-resolution light grid: with beam separation of 5 mm, 10 mm, 20 mm, 25 mm, 30 mm und 50 mm
- Available with three push-pull switching outputs or two analog outputs
- Display configuration with selected, pre-programmed measuring functions
- Monitoring height up to 3.2 m
- Operating range up to 8.5 m
- Optical synchronization of sender and receiver
- Cloning function via IO-Link
- Temperature range from -30 °C to +55 °C

Your benefits

- Easy concept: Time and cost savings due to simple configuration and quick commissioning
- Modular concept offers the perfect solution every time from a single source
- Two optical synchronization beams increase operational safety
- Simple maintenance without the need for specialist staff thanks to the cloning function with IO-Link
- Direct configuration on the device display for quick commissioning
- IO-Link as an interface for configuration, measured data transfer and diagnostics
- Minimal specialist knowledge required by the user thanks to the intuitive arrangement of the most essential functions
- Extremely high operational safety due to rugged aluminum housing

Fields of application

- Logistics: Height and protrusion measurement
- Logistics: Volume measurement
- Logistics: Package orientation
- Machine tools: Measurement of workpieces and tools
- Dynamic storage systems: Height measurement and overhang measurement
- Transportation technology: Separating and qualifying
- Food and beverage industry: Bottle detection
- Paint shops: Robot control

Ordering information

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

- **Version:** Prime
- **Communication interface:** IO-Link (V1.1), Analog (Current)
- **Inputs/outputs:** 2 x analog + 1 x Q (IO-Link)
- **Option:** Nonexistent

Beam separation	Operating range	Detection height	Type	Part no.
5 mm	5 m	145 mm	MLG05S-0145A10501	1213504
		295 mm	MLG05S-0295A10501	1213707
		445 mm	MLG05S-0445A10501	1214141
		595 mm	MLG05S-0595A10501	1214908
		745 mm	MLG05S-0745A10501	1213709
		895 mm	MLG05S-0895A10501	1220482
		1,045 mm	MLG05S-1045A10501	1219796
		1,195 mm	MLG05S-1195A10501	1215618
		1,495 mm	MLG05S-1495A10501	1219797
		1,645 mm	MLG05S-1645A10513	1221758
		1,945 mm	MLG05S-1945A10501	1217560
		2,095 mm	MLG05S-2095A10501	1217559
		2,395 mm	MLG05S-2395A10501	1215105
		8.5 m	445 mm	MLG05S-0445A10801
	745 mm		MLG05S-0745A10801	1222339
	895 mm		MLG05S-0895A10802	1214002
	1,045 mm		MLG05S-1045A10819	1215219
	1,495 mm		MLG05S-1495A10802	1219181

Beam separation	Operating range	Detection height	Type	Part no.
10 mm	5 m	140 mm	MLG10S-0140A10501	1217487
		290 mm	MLG10S-0290A10501	1213541
		440 mm	MLG10S-0440A10501	1215217
			MLG10S-0440A10514	1108312
		590 mm	MLG10S-0590A10501	1216802
		740 mm	MLG10S-0740A10501	1213710
		890 mm	MLG10S-0890A10501	1214421
		1,040 mm	MLG10S-1040A10501	1213761
		1,190 mm	MLG10S-1190A10501	1215014
		1,490 mm	MLG10S-1490A10501	1217112
		1,640 mm	MLG10S-1640A10501	1219179
		1,790 mm	MLG10S-1790A10501	1217447
		2,090 mm	MLG10S-2090A10501	1217546
		2,540 mm	MLG10S-2540A10501	1214510
		3,140 mm	MLG10S-3140A10501	1215985
	8.5 m	440 mm	MLG10S-0440A10801	1218452
		590 mm	MLG10S-0590A10801	1220906
20 mm	5 m	140 mm	MLG20S-0140A10501	1217847
		280 mm	MLG20S-0280A10501	1217849
		580 mm	MLG20S-0580A10501	1217851
		740 mm	MLG20S-0740A10501	1219230
	5 m	1,180 mm	MLG20S-1180A10501	1217853
		1,640 mm	MLG20S-1640A10501	1219636
		2,080 mm	MLG20S-2080A10501	1217855

Beam separation	Operating range	Detection height	Type	Part no.
25 mm	5 m	275 mm	MLG25S-0275A10501	1214030
		425 mm	MLG25S-0425A10501	1216178
		575 mm	MLG25S-0575A10501	1213542
		725 mm	MLG25S-0725A10501	1216360
		875 mm	MLG25S-0875A10501	1215502
		1,025 mm	MLG25S-1025A10501	1214790
		1,175 mm	MLG25S-1175A10501	1217113
		1,325 mm	MLG25S-1325A10501	1214519
		1,625 mm	MLG25S-1625A10501	1215139
		1,775 mm	MLG25S-1775A10501	1214441
		2,225 mm	MLG25S-2225A10501	1214371
		30 mm	5 m	270 mm
570 mm	MLG30S-0570A10501			1217859
870 mm	MLG30S-0870A10501			1221538
1,170 mm	MLG30S-1170A10501			1217861
1,620 mm	MLG30S-1620A10501			1220187
1,770 mm	MLG30S-1770A10501			1221118
1,920 mm	MLG30S-1920A10501			1221864
2,070 mm	MLG30S-2070A10501			1217863
2,220 mm	MLG30S-2220A10501			1221401
2,370 mm	MLG30S-2370A10501			1220996
2,970 mm	MLG30S-2970A10501			1223023
8.5 m	1,170 mm			MLG30S-1170A10802
	1,920 mm		MLG30S-1920A10802	1221482
	2,220 mm		MLG30S-2220A10801	1218072

Beam separation	Operating range	Detection height	Type	Part no.	
50 mm	5 m	550 mm	MLG50S-0550A10501	1215350	
		700 mm	MLG50S-0700A10501	1215351	
			MLG50S-0700A10503	1216498	
		850 mm	MLG50S-0850A10501	1213976	
		1,150 mm	MLG50S-1150A10501	1213479	
		1,300 mm	MLG50S-1300A10501	1107771	
		1,450 mm	MLG50S-1450A10501	1214419	
		1,600 mm	MLG50S-1600A10501	1221983	
		1,750 mm	MLG50S-1750A10501	1216406	
		2,050 mm	MLG50S-2050A10501	1217079	
		2,200 mm	MLG50S-2200A10501	1213508	
		2,350 mm	MLG50S-2350A10501	1216018	
		2,500 mm	MLG50S-2500A10501	1217363	
		8.5 m	1,000 mm	MLG50S-1000A10801	1216094
			2,200 mm	MLG50S-2200A10801	1214456
	2,500 mm		MLG50S-2500A10801	1221039	
	3,100 mm		MLG50S-3100A10801	1218954	

- **Version:** Prime
- **Communication interface:** IO-Link (V1.1)
- **Inputs/outputs:** 3 x Q (IO-Link)
- **Option:** Nonexistent

Beam separation	Operating range	Detection height	Type	Part no.
5 mm	5 m	145 mm	MLG05S-0145D10501	1213494
			MLG05S-0145D10504	1215077
			MLG05S-0145D10517	1214632

Beam separation	Operating range	Detection height	Type	Part no.
		295 mm	MLG05S-0295D10501	1214505
			MLG05S-0295D10519	1214693
		445 mm	MLG05S-0445D10501	1214841
			MLG05S-0445D10513	1214004
		595 mm	MLG05S-0595D10501	1214821
		745 mm	MLG05S-0745D10501	1213960
			MLG05S-0745D10513	1214005
		895 mm	MLG05S-0895D10501	1218971
		1,045 mm	MLG05S-1045D10501	1219043
		1,195 mm	MLG05S-1195D10501	1216388
		1,345 mm	MLG05S-1345D10501	1218309
		1,645 mm	MLG05S-1645D10501	1106561
		1,795 mm	MLG05S-1795D10501	1216390
		1,945 mm	MLG05S-1945D10501	1214578
		2,095 mm	MLG05S-2095D10501	1216392
		2,245 mm	MLG05S-2245D10501	1217610
		2,395 mm	MLG05S-2395D10501	1218515
		2,545 mm	MLG05S-2545D10501	1220312
		8.5 m	145 mm	MLG05S-0145D10801
	445 mm		MLG05S-0445D10803	1214447

Beam separation	Operating range	Detection height	Type	Part no.
10 mm	5 m	140 mm	MLG10S-0140D10501	1213750
			MLG10S-0140D10532	1218439
		290 mm	MLG10S-0290D10501	1213958
			MLG10S-0290D10532	1218440
		440 mm	MLG10S-0440D10501	1214840
			MLG10S-0440D10503	1217973
10 mm	5 m	440 mm	MLG10S-0440D10508	1217978
		590 mm	MLG10S-0590D10501	1214635
			MLG10S-0590D10503	1216082
		740 mm	MLG10S-0740D10501	1213539
		1,040 mm	MLG10S-1040D10501	1215257

Beam separation	Operating range	Detection height	Type	Part no.	
		1,190 mm	MLG10S-1190D10501	1216387	
		1,340 mm	MLG10S-1340D10501	1215227	
		1,490 mm	MLG10S-1490D10501	1214340	
		1,790 mm	MLG10S-1790D10501	1216389	
		1,940 mm	MLG10S-1940D10501	1217267	
			MLG10S-1940D10503	1217293	
		2,090 mm	MLG10S-2090D10501	1216391	
		2,240 mm	MLG10S-2240D10501	1214987	
			MLG10S-2240D10504	1217991	
		2,390 mm	MLG10S-2390D10501	1216394	
		2,540 mm	MLG10S-2540D10501	1219091	
			MLG10S-2540D10504	1217683	
		3,140 mm	MLG10S-3140D10501	1219966	
		8.5 m	140 mm	MLG10S-0140D10801	1215599
			290 mm	MLG10S-0290D10801	1216301
	590 mm		MLG10S-0590D10801	1219711	
	890 mm		MLG10S-0890D10801	1217756	
	1,640 mm		MLG10S-1640D10801	1218190	
	2,090 mm		MLG10S-2090D10801	1219871	
	2,990 mm		MLG10S-2990D10803	1219363	

Beam separation	Operating range	Detection height	Type	Part no.		
20 mm	5 m	140 mm	MLG20S-0140D10501	1217848		
			MLG20S-0140D10523	1221075		
			MLG20S-0140D10533	1221190		
		280 mm	MLG20S-0280D10501	1217850		
		440 mm	MLG20S-0440D10501	1221201		
		580 mm	MLG20S-0580D10501	1217852		
		1,040 mm	MLG20S-1040D10501	1222979		
		1,180 mm	MLG20S-1180D10501	1217854		
		1,640 mm	MLG20S-1640D10501	1219638		
		2,080 mm	MLG20S-2080D10501	1217856		
	8.5 m	880 mm	MLG20S-0880D10801	1221596		
		1,780 mm	MLG20S-1780D10801	1220064		
		2,240 mm	MLG20S-2240D10801	1222589		
25 mm	5 m	275 mm	MLG25S-0275D10501	1213513		
			MLG25S-0275D10503	1214228		
	5 m	275 mm	MLG25S-0275D10504	1215266		
			425 mm	MLG25S-0425D10501	1217966	
		425 mm	MLG25S-0425D10504	1215863		
			MLG25S-0425D10532	1216157		
			575 mm	MLG25S-0575D10501	1216395	
		575 mm	MLG25S-0575D10503	1217264		
			25 mm	5 m	575 mm	MLG25S-0575D10504
		25 mm	5 m	575 mm	MLG25S-0575D10532	1216143
725 mm	MLG25S-0725D10501				1213503	
875 mm	MLG25S-0875D10501			1218283		

Beam separation	Operating range	Detection height	Type	Part no.	
		1,025 mm	MLG25S-1025D10501	1216250	
		1,175 mm	MLG25S-1175D10501	1215082	
		1,325 mm	MLG25S-1325D10501	1217118	
		1,475 mm	MLG25S-1475D10501	1218956	
		1,625 mm	MLG25S-1625D10501	1214983	
		1,775 mm	MLG25S-1775D10501	1214930	
			MLG25S-1775D10503	1214818	
		1,925 mm	MLG25S-1925D10501	1217117	
			MLG25S-1925D10504	1222947	
		2,075 mm	MLG25S-2075D10501	1214594	
		2,225 mm	MLG25S-2225D10501	1214368	
		2,375 mm	MLG25S-2375D10501	1216393	
			MLG25S-2375D10504	1214845	
		2,525 mm	MLG25S-2525D10501	1222522	
		3,125 mm	MLG25S-3125D10501	1213979	
		8.5 m	275 mm	MLG25S-0275D10801	1218972
			725 mm	MLG25S-0725D10801	1106063
			875 mm	MLG25S-0875D10801	1217757
			1,175 mm	MLG25S-1175D10801	1220997
	1,475 mm		MLG25S-1475D10801	1219458	
	2,225 mm		MLG25S-2225D10801	1219647	

Beam separation	Operating range	Detection height	Type	Part no.
30 mm	5 m	270 mm	MLG30S-0270D10501	1217858
		420 mm	MLG30S-0420D10501	1221202
		570 mm	MLG30S-0570D10501	1217860
		1,170 mm	MLG30S-1170D10501	1217862
		1,320 mm	MLG30S-1320D10503	1221373
		2,070 mm	MLG30S-2070D10501	1217864
		2,370 mm	MLG30S-2370D10501	1108357
		2,520 mm	MLG30S-2520D10501	1218849
		3,120 mm	MLG30S-3120D10503	1106768
	8.5 m	570 mm	MLG30S-0570D10801	1222642
		870 mm	MLG30S-0870D10801	1223133
		1,320 mm	MLG30S-1320D10801	1106104
		1,470 mm	MLG30S-1470D10801	1108955
	50 mm	5 m	250 mm	MLG50S-0250D10501
400 mm			MLG50S-0400D10501	1214752
550 mm			MLG50S-0550D10501	1213998
700 mm			MLG50S-0700D10501	1214599
850 mm			MLG50S-0850D10501	1214600
5 m		1,000 mm	MLG50S-1000D10501	1216418
		1,150 mm	MLG50S-1150D10501	1216396
			MLG50S-1150D10503	1222324
		1,300 mm	MLG50S-1300D10501	1217280
		1,450 mm	MLG50S-1450D10501	1216246
50 mm	5 m	1,600 mm	MLG50S-1600D10501	1216560
			MLG50S-1600D10504	1215931

Beam separation	Operating range	Detection height	Type	Part no.	
		1,750 mm	MLG50S-1750D10501	1213540	
			MLG50S-1750D10517	1221321	
		1,900 mm	MLG50S-1900D10501	1214707	
			MLG50S-1900D10502	1215538	
			MLG50S-1900D10504	1216830	
			MLG50S-1900D10517	1222424	
			2,050 mm	MLG50S-2050D10501	1214603
		MLG50S-2050D10504		1216832	
		2,200 mm	MLG50S-2200D10501	1214268	
			MLG50S-2200D10503	1218520	
			MLG50S-2200D10517	1218747	
		2,350 mm	MLG50S-2350D10501	1217298	
			MLG50S-2350D10517	1218499	
		2,500 mm	MLG50S-2500D10501	1215423	
			MLG50S-2500D10504	1216705	
		2,650 mm	MLG50S-2650D10501	1215022	
		2,800 mm	MLG50S-2800D10517	1218656	
		3,100 mm	MLG50S-3100D10501	1213510	
		8.5 m	550 mm	MLG50S-0550D10801	1219706
			1,000 mm	MLG50S-1000D10813	1214156
			2,050 mm	MLG50S-2050D10801	1214523
			2,200 mm	MLG50S-2200D10801	1214457
			3,100 mm	MLG50S-3100D10801	1214045

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