



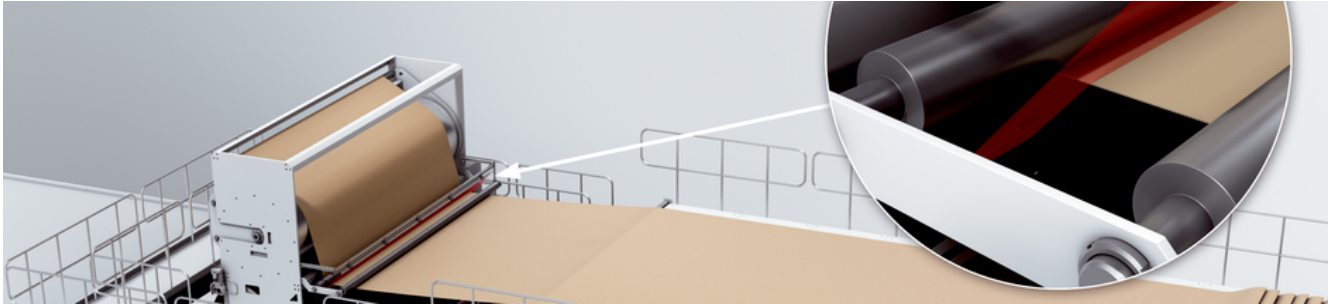
MLG-2 WebChecker

Highest precision for web width measurement

MEASURING AUTOMATION LIGHT GRIDS

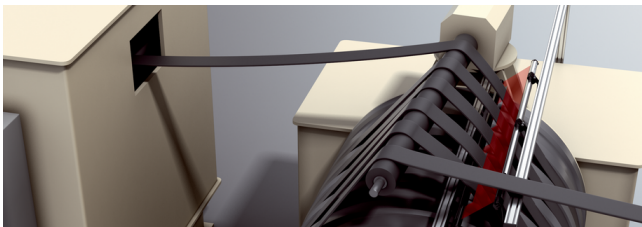
SICK
Sensor Intelligence.

Format change

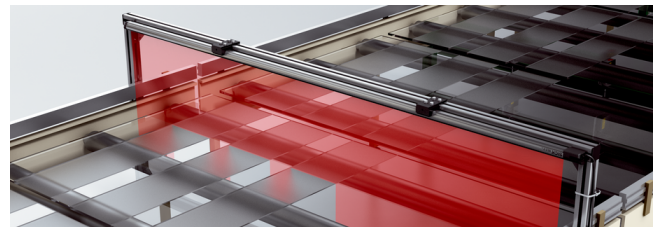


Format change made easy

The MLG-2 WebChecker automation light grid automatically finds up to 10 edges and measures these in relation to a reference edge. Up to 5 different web widths can be measured at the same time. With semi-transparent materials, defined inner edges can also be detected and measured. Thanks to its modular design, the MLG-2 WebChecker is well-suited for various monitored areas, interfaces and sensing ranges. Measuring fields of a minimum of 150 mm x 200 mm up to maximum of 2,500 mm x 3,150 mm can be implemented. The MLG-2 WebChecker communicates with different controllers. The end customer can therefore very easily change the format on the machine via fieldbuses or IO-Link.



Maximum web width measurement of up to 5 m with MLG-2 WebChecker automation light grids



Measurements not dependent on color, shape or surface



The MLG-2 WebChecker automation light grid enables high-precision, space-saving web width measurement, even in very wide plastic, textile, rubber or steel webs. The MLG-2 WebChecker measures continuously throughout the entire web so the format can be changed without readjustment.

Advantages



Technical data overview

Communication interface	IO-Link (V1.1) Analog (current) Serial (RS-485) PROFINET EtherCAT® EtherNet/IP™ (depending on type)
Switching output	Push-pull: PNP/NPN
Beam separation	5 mm
Operating range	2.5 m
Response time	4.3 ms ... 49.8 ms (depending on type)

Product description

The MLG-2 WebChecker measuring automation light grid is based on established technology combined with the most advanced software and is used for high-precision web width measurement. The light grid also measures large web widths with revolutionary accuracy. The MLG-2 WebChecker can find up to 10 edges or 5 webs and measure them continuously. With semi-transparent objects, the light grid measures up to 10 edges defined by the customer.

At a glance

- Measurement accuracy: ± 0.3 mm
- Resolution: 0.1 mm
- Measuring field: 3,150 mm (in 150 mm steps)
- Response time: 32 μ s (from beam to beam)
- Interfaces: 3 switching outputs, analog interface, IO-Link, RS-485, PROFINET, EtherCAT® and EtherNet/IP™
- Operating range: 2,500 mm
- Interface output: 10 edges with 5 edges and 5 center positions

Your benefits

- Edge position detection for webs of 145 mm to 3,150 mm with a measurement accuracy of ± 0.3 mm – for machines with maximum performance
- Easy format change with flexible web width measurement increases customer satisfaction
- The MLG-2 WebChecker measures 5 webs at a time, therefore reducing the number of sensors in the application
- Modern Ethernet interface for quick, reliable data transmission increases system availability
- Prevention of errors and reduced downtime during format change

Fields of application

- Automotive industry: Tire production
- Steel industry: Coil handling
- Plastic web production
- Textile web production
- Wood panel measurement
- Box production

Ordering information

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

- **Device version:** Web guiding
- **Communication Interface detail:** IO-Link (V1.1), Analog (current)
- **Inputs/outputs:** 2 x analog + 2 x Q (IO-Link)
- **Option:** none

Beam separation	Operating range	Total measuring field width	Measuring field width detail (connection side/medium range/head side)	Type	Part no.
5 mm	2.5 m	145 mm	145 mm / 0 mm / 0 mm	MLG05W-0100B12501	1222942
				MLG05W-0100B12599	1106624
		295 mm	295 mm / 0 mm / 0 mm	MLG05W-0200B12501	1108412
		445 mm	145 mm / 155 mm / 145 mm	MLG05W-0111B12501	1109856
				MLG05W-0300B12501	1222734
		595 mm	595 mm / 0 mm / 0 mm	MLG05W-0400B12501	1108620
5 mm	2.5 m	595 mm	595 mm / 0 mm / 0 mm	MLG05W-0400B12599	1118150
				MLG05W-0500B12501	1109300
		745 mm	745 mm / 0 mm / 0 mm	MLG05W-0222B12501	1108880
				MLG05W-0600B12501	1223138
		895 mm	295 mm / 305 mm / 295 mm	MLG05W-0600B12599	1110491

Beam separation	Operating range	Total measuring field width	Measuring field width detail (connection side/medium range/head side)	Type	Part no.
		1,045 mm	1,045 mm / 0 mm / 0 mm	MLG05W-0700B12501	1111446
			445 mm / 155 mm / 445 mm	MLG05W-0313B12501	1108881
		1,195 mm	295 mm / 605 mm / 295 mm	MLG05W-0242B12501	1112654
			445 mm / 305 mm / 445 mm	MLG05W-0323B12501	1109042
		1,345 mm	1,345 mm / 0 mm / 0 mm	MLG05W-0900B12501	1108882
			145 mm / 1,055 mm / 145 mm	MLG05W-0171B12501	1109468
			295 mm / 755 mm / 295 mm	MLG05W-0252B12501	1109638
			595 mm / 155 mm / 595 mm	MLG05W-0414B12501	1108883
		1,495 mm	1,495 mm / 0 mm / 0 mm	MLG05W-0A00B12501	1108621
			445 mm / 605 mm / 445 mm	MLG05W-0343B12501	1111237
			595 mm / 305 mm / 595 mm	MLG05W-0424B12501	1108884
		1,645 mm	1,645 mm / 0 mm / 0 mm	MLG05W-0B00B12501	1114384
			595 mm / 455 mm / 595 mm	MLG05W-0434B12501	1109389
		1,945 mm	595 mm / 1,205 mm / 145 mm	MLG05W-0481B12501	1118179
			745 mm / 455 mm / 745 mm	MLG05W-0535B12501	1109470
		2,245 mm	895 mm / 455 mm / 895 mm	MLG05W-0636B12501	1112221
		2,545 mm	145 mm / 2,255 mm / 145 mm	MLG05W-01F1B12501	1113114
			745 mm / 1,055 mm / 745 mm	MLG05W-0575B12501	1109667
			895 mm / 755 mm / 895 mm	MLG05W-0656B12501	1222936
		3,145 mm	1,195 mm / 755 mm / 1,195 mm	MLG05W-0858B12501	1118452

- **Device version:** Web guiding
- **Communication Interface detail:** IO-Link (V1.1), Serial (RS-485)
- **Inputs/outputs:** RS-485 + 2 x Q (IO-Link)
- **Option:** none

Beam separation	Operating range	Total measuring field width	Measuring field width detail (connection side/medium range/head side)	Type	Part no.
5 mm	2.5 m	295 mm	295 mm / 0 mm / 0 mm	MLG05W-0200I12501	1112421
		595 mm	595 mm / 0 mm / 0 mm	MLG05W-0400I12501	1115650
		1,045 mm	445 mm / 305 mm / 295 mm	MLG05W-0322I12501	1115249
		1,195 mm	1,195 mm / 0 mm / 0 mm	MLG05W-0800I12501	1222924
		1,345 mm	145 mm / 905 mm / 295 mm	MLG05W-0162I12501	1222298
			445 mm / 455 mm / 445 mm	MLG05W-0333I12501	1108966
		1,645 mm	595 mm / 305 mm / 745 mm	MLG05W-0425I12501	1115248
		1,795 mm	1,795 mm / 0 mm / 0 mm	MLG05W-0C00I12501	1112711
		2,245 mm	895 mm / 455 mm / 895 mm	MLG05W-0636I12501	1108967
		2,695 mm	895 mm / 905 mm / 895 mm	MLG05W-0666I12501	1222941
		3,145 mm	1,045 mm / 1,055 mm / 1,045 mm	MLG05W-0777I12501	1109294

- **Device version:** Web guiding
- **Communication Interface detail:** IO-Link (V1.1)
- **Inputs/outputs:** 4 x Q (IO-Link)
- **Option:** none

Beam separation	Operating range	Total measuring field width	Measuring field width detail (connection side/medium range/head side)	Type	Part no.
5 mm	2.5 m	595 mm	595 mm / 0 mm / 0 mm	MLG05W-0400R12501	1110585
		745 mm	295 mm / 155 mm / 295 mm	MLG05W-0212R12501	1222944
		1,045 mm	1,045 mm / 0 mm / 0 mm	MLG05W-0700R12501	1222900
		1,195 mm	445 mm / 305 mm / 445 mm	MLG05W-0323R12501	1114889

- **Device version:** Web guiding
- **Communication Interface detail:** IO-Link (V1.1), Analog (current)
- **Inputs/outputs:** 1 x analog + 3 x Q (IO-Link)
- **Option:** none

Beam separation	Operating range	Total measuring field width	Measuring field width detail (connection side/medium range/head side)	Type	Part no.
5 mm	2.5 m	145 mm	145 mm / 0 mm / 0 mm	MLG05W-0100G12599	1106625
		895 mm	895 mm / 0 mm / 0 mm	MLG05W-0600G12599	1108791
		1,045 mm	295 mm / 455 mm / 295 mm	MLG05W-0232G12501	1109043
			445 mm / 305 mm / 295 mm	MLG05W-0322G12501	1115125
		1,345 mm	1,345 mm / 0 mm / 0 mm	MLG05W-0900G12501	1117489
		1,645 mm	595 mm / 305 mm / 745 mm	MLG05W-0425G12501	1115124
		1,945 mm	595 mm / 755 mm / 595 mm	MLG05W-0454G12599	1118081
		2,245 mm	745 mm / 755 mm / 745 mm	MLG05W-0555G12599	1118151
		2,395 mm	2,395 mm / 0 mm / 0 mm	MLG05W-0G00G12501	1117487
		2,545 mm	745 mm / 1,055 mm / 745 mm	MLG05W-0575G12599	1118082
			895 mm / 755 mm / 895 mm	MLG05W-0656G12501	1113664
		2,695 mm	745 mm / 1,205 mm / 745 mm	MLG05W-0585G12501	1113663
		2,995 mm	1,195 mm / 605 mm / 1,195 mm	MLG05W-0848G12501	1117485
		3,145 mm	745 mm / 1,655 mm / 745 mm	MLG05W-05B5G12501	1117409

- **Device version:** Web guiding
- **Communication Interface detail:** PROFINET
- **Option:** none

Beam separation	Operating range	Total measuring field width	Measuring field width detail (connection side/medium range/head side)	Type	Part no.
5 mm	2.5 m	145 mm	145 mm / 0 mm / 0 mm	MLG05W-0100N12501	1113589
		295 mm	295 mm / 0 mm / 0 mm	MLG05W-0200N12501	1111564
5 mm	2.5 m	445 mm	445 mm / 0 mm / 0 mm	MLG05W-0300N12501	1112036
		595 mm	595 mm / 0 mm / 0 mm	MLG05W-0400N12501	1119813

Beam separation	Operating range	Total measuring field width	Measuring field width detail (connection side/medium range/head side)	Type	Part no.
		745 mm	295 mm / 155 mm / 295 mm	MLG05W-0212N12501	1115085
			745 mm / 0 mm / 0 mm	MLG05W-0500N12501	1115084
		895 mm	895 mm / 0 mm / 0 mm	MLG05W-0600N12501	1112827
		1,045 mm	1,045 mm / 0 mm / 0 mm	MLG05W-0700N12501	1114929
			145 mm / 755 mm / 145 mm	MLG05W-0151N12501	1114927
		1,195 mm	1,195 mm / 0 mm / 0 mm	MLG05W-0800N12501	1115928
		1,345 mm	1,345 mm / 0 mm / 0 mm	MLG05W-0900N12501	1111642
		1,495 mm	1,495 mm / 0 mm / 0 mm	MLG05W-0A00N12501	1115619
			445 mm / 605 mm / 445 mm	MLG05W-0343N12501	1116777
		1,645 mm	145 mm / 1,355 mm / 145 mm	MLG05W-0191N12501	1113588
			445 mm / 755 mm / 445 mm	MLG05W-0353N12501	1115103
			595 mm / 455 mm / 595 mm	MLG05W-0434N12501	1116808
		1,795 mm	1,795 mm / 0 mm / 0 mm	MLG05W-0C00N12501	1117809
		1,945 mm	1,945 mm / 0 mm / 0 mm	MLG05W-0D00N12501	1116693
			445 mm / 1,055 mm / 445 mm	MLG05W-0373N12501	1115217
		2,245 mm	295 mm / 1,655 mm / 295 mm	MLG05W-02B2N12501	1115005
			895 mm / 455 mm / 895 mm	MLG05W-0636N12501	1119090
		2,395 mm	2,395 mm / 0 mm / 0 mm	MLG05W-0G00N12501	1117488
		2,545 mm	2,245 mm / 155 mm / 145 mm	MLG05W-0F11N12501	1111699
		2,695 mm	1,045 mm / 605 mm / 1,045 mm	MLG05W-0747N12501	1112128
		2,995 mm	1,195 mm / 605 mm / 1,195 mm	MLG05W-0848N12501	1117486
		3,145 mm	1,045 mm / 1,055 mm / 1,045 mm	MLG05W-0777N12501	1114716
			1,195 mm / 755 mm / 1,195 mm	MLG05W-0858N12501	1118453

- **Device version:** Web guiding
- **Communication Interface detail:** PROFINET
- **Option:** Protective housing IP69K

Beam separation	Operating range	Total measuring field width	Measuring field width detail (connection side/medium range/head side)	Type	Part no.
5 mm	2.5 m	145 mm	145 mm / 0 mm / 0 mm	MLG05W-0100N52501	1112733
		1,645 mm	745 mm / 155 mm / 745 mm	MLG05W-0515N52501	1116869

- **Device version:** Web guiding
- **Communication Interface detail:** EtherCAT®
- **Option:** none

Beam separation	Operating range	Total measuring field width	Measuring field width detail (connection side/medium range/head side)	Type	Part no.
5 mm	2.5 m	145 mm	145 mm / 0 mm / 0 mm	MLG05W-0100E12501	1106622
		445 mm	145 mm / 155 mm / 145 mm	MLG05W-0111E12501	1110367
			445 mm / 0 mm / 0 mm	MLG05W-0300E12501	1119811
		595 mm	595 mm / 0 mm / 0 mm	MLG05W-0400E12501	1119814
		745 mm	745 mm / 0 mm / 0 mm	MLG05W-0500E12501	1112715
		1,645 mm	445 mm / 755 mm / 445 mm	MLG05W-0353E12501	1118080

- **Device version:** Web guiding
- **Communication Interface detail:** EtherNet/IP™
- **Option:** none

Beam separation	Operating range	Total measuring field width	Measuring field width detail (connection side/medium range/head side)	Type	Part no.
5 mm	2.5 m	145 mm	145 mm / 0 mm / 0 mm	MLG05W-0100H12501	1106623
		295 mm	295 mm / 0 mm / 0 mm	MLG05W-0200H12501	1113146
		445 mm	445 mm / 0 mm / 0 mm	MLG05W-0300H12501	1113064
		595 mm	595 mm / 0 mm / 0 mm	MLG05W-0400H12501	1119812
		745 mm	745 mm / 0 mm / 0 mm	MLG05W-0500H12501	1111565
		1,045 mm	1,045 mm / 0 mm / 0 mm	MLG05W-0700H12501	1112902
		1,345 mm	1,345 mm / 0 mm / 0 mm	MLG05W-0900H12501	1117410
			445 mm / 455 mm / 445 mm	MLG05W-0333H12501	1118807
		1,645 mm	295 mm / 1,055 mm / 295 mm	MLG05W-0272H12501	1116930
		1,795 mm	445 mm / 905 mm / 445 mm	MLG05W-0363H12501	1113743
			745 mm / 305 mm / 745 mm	MLG05W-0525H12501	1112673
		1,945 mm	1,945 mm / 0 mm / 0 mm	MLG05W-0D00H12501	1113822
		2,095 mm	2,095 mm / 0 mm / 0 mm	MLG05W-0E00H12501	1114684
		2,245 mm	895 mm / 455 mm / 895 mm	MLG05W-0636H12501	1112222
		2,395 mm	2,395 mm / 0 mm / 0 mm	MLG05W-0G00H12501	1114533
		2,545 mm	1,195 mm / 155 mm / 1,195 mm	MLG05W-0818H12501	1115790

- **Device version:** Web guiding
- **Communication Interface detail:** EtherNet/IP™
- **Option:** Protective housing IP69K

Beam separation	Operating range	Total measuring field width	Measuring field width detail (connection side/medium range/head side)	Type	Part no.
5 mm	2.5 m	295 mm	295 mm / 0 mm / 0 mm	MLG05W-0200H52501	1116174
		1,645 mm	295 mm / 455 mm / 895 mm	MLG05W-0236H52501	1119294
		2,245 mm	2,245 mm / 0 mm / 0 mm	MLG05W-0F00H52501	1113745
		2,395 mm	2,395 mm / 0 mm / 0 mm	MLG05W-0G00H52501	1114743

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