ELG

The sturdy light grid for many standard applications

SICK
Sensor Intelligence.

ELG

Technical data overview

Operating range	1.5 m ... 12 m (depending on type)
Beam separation	30 mm 60 mm (depending on type)
Detection height	90 mm ... 3,120 mm (depending on type)
Connection type	Male connector M12, 4-pin Cable 5 m Cable, 5-wire Male connector M12, 5-pin (depending on type)
Length of cable	5 m / 15 m (depending on type)

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Product description

SICK offers the versatile ELG, an extremely tough switching automation light grid with different monitoring heights and beam separations. The ELG is not sensitive to glare caused by sunlight and flashing light. Typical applications are in logistics for checking for projections on pallets and counting boxes and small parts. In addition, the ELG is used for vehicle separation at tollbooths. The ELG is available with up to 128 beams and with a minimum beam resolution of 30 mm.

At a glance

• Up to 128 beams
• Different beam resolutions 30 mm and 60 mm
• High operating reserve for scanning ranges up to 12 m
• Potentiometer for sensitivity adjustment
• Ambient light immunity up to 150,000 lux
• Tough aluminum housing
• PNP/NPN, relay output and a test input
• Optical synchronization

Your benefits

• High immunity to ambient light when exposed to sunlight and reflective objects, eliminating false trips
• A high operating reserve increases application availability and reduces maintenance costs
• Efficient and effective way to evaluate multiple beams in one housing with one connection cable
• Simple commissioning thanks to a larger optical aperture angle and manual fine adjustment option
• Optical synchronization enables quick installation and cost-effective connection
• The sensitivity adjustment enables trouble-free operation without reflection problems for the customer

Ordering information

Other models and accessories ➜ www.sick.com/ELG

Beam separation	Operating range	Detection height	Length of cable	Type	Part no.
30 mm	1.5 m	150 mm	–	ELG3-0150P543S31	1109375
		390 mm	–	ELG3-0390P591S32	1109376
		930 mm	–	ELG3-0930P511S34	1109379
		1,050 mm	–	ELG3-1050P511S33	1109378
	2 m	90 mm	–	ELG3-0090N511	1041095
				ELG3-0090P511	1024290
30 mm	2 m	90 mm	–	ELG3-0090P513	1025443
		150 mm	–	ELG3-0150P513	1025578

Beam separation	Operating range	Detection height	Length of cable	Type	Part no.
		210 mm	–	ELG3-0210N513	1052378
				ELG3-0210P511	1025510
				ELG3-0210P513	1025438
		330 mm	–	ELG3-0330N511	1042302
				ELG3-0330P511	1025575
				ELG3-0330P513	1025576
				ELG3-0330P591	1042613
			5 m	ELG3-0330P113	1040134
		390 mm	–	ELG3-0390P591	1042615
		450 mm	–	ELG3-0450P511	1025490
				ELG3-0450P591	1029489
		570 mm	–	ELG3-0570P511	1025501
		690 mm	–	ELG3-0690N511	1041956
				ELG3-0690P511	1025499
		930 mm	–	ELG3-0930P511	1025492
		1,050 mm	–	ELG3-1050P511	1025452
	12 m	150 mm	–	ELG3-0150N521	1047932
				ELG3-0150P521	1026475
		210 mm	–	ELG3-0210N521	1025613
				ELG3-0210P521	1025574
				ELG3-0210P523	1055564
				ELG3-0210P561	1046812
		330 mm	–	ELG3-0330P521	1057961
		450 mm	–	ELG3-0450N521	1025614
				ELG3-0450P521	1025440
				ELG3-0450P561	1027894
			15 m	ELG3-0450R221	1024268
		570 mm	–	ELG3-0570P521	1025885
30 mm	12 m	690 mm	–	ELG3-0690N521	1025615
				ELG3-0690P521	1025568
		810 mm	–	ELG3-0810P521	1025577
				ELG3-0810P523	1026177
		930 mm	–	ELG3-0930N521	1025616
				ELG3-0930P521	1025511
				ELG3-0930R521	1025449
				ELG3-0930R523	1026537
			5 m	ELG3-0930R121	1025785
			15 m	ELG3-0930R221	1026176

Beam separation	Operating range	Detection height	Length of cable	Type	Part no.
		1,050 mm	–	ELG3-1050P521	1025570
		1,170 mm	–	ELG3-1170N521	1025617
				ELG3-1170P521	1025579
				ELG3-1170P523	1040580
		1,230 mm	–	ELG3-1230N521	1082945
		1,410 mm	–	ELG3-1410N521	1025618
				ELG3-1410P521	1025502
				ELG3-1410P523	1026179
				ELG3-1410R523	1053265
		1,650 mm	–	ELG3-1650N521	1025620
				ELG3-1650P521	1025503
		1,890 mm	–	ELG3-1890N521	1025621
				ELG3-1890P521	1025504
				ELG3-1890P523	1026826
			5 m	ELG3-1890R121	1026180
		2,070 mm	–	ELG3-2070P521	1025505
				ELG3-2070P523	1025572
		2,370 mm	–	ELG3-2370P521	1025573
				ELG3-2370P523	1026178
		3,090 mm	–	ELG3-3090P521	1063717
60 mm	2.5 m	1,860 mm	–	ELG6-1860P501S24	1066373

Beam separation	Operating range	Detection height	Length of cable	Type	Part no.
	12 m	900 mm	–	ELG6-0900P521	1025447
				ELG6-0900R521	1026181
				ELG6-0900R523	1025453
		1,080 mm	–	ELG6-1080P521	1025586
		1,200 mm	–	ELG6-1200P561	1044292
		1,380 mm	–	ELG6-1380P521	1025587
				ELG6-1380P523	1025588
				ELG6-1380P561	1043870
				ELG6-1380R523	1025451
		1,620 mm	–	ELG6-1620P521	1040686
		1,860 mm	–	ELG6-1860P521	1025589
				ELG6-1860P523	1025593
				ELG6-1860R521	1026182
				ELG6-1860R523	1026458
		2,040 mm	–	ELG6-2040P523	1025594
				ELG6-2040R523S01	1026295
		2,340 mm	–	ELG6-2340P521	1025596
		2,460 mm	–	ELG6-2460P523	1024293
				ELG6-2460R521	1026183
		3,120 mm	–	ELG6-3120P521	1047475