



ELG

The sturdy light grid for many standard applications

SWITCHING AUTOMATION LIGHT GRIDS

SICK
Sensor Intelligence.



Technical data overview

Operating range	1.5 m ... 12 m (depending on type)
Length of cable	5 m / 15 m (depending on type)



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 10 mm.

At a glance

- Up to 128 beams
- Different beam resolutions 10 mm, 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

- **Sub product family:** ELG Short Range
- **Operating range:** 3 m
- **Beam separation:** 10 mm

Detection height	Switching output	Type	Part no.
100 mm	2 x PNP	ELG1-0100P531	1026807
		ELG1-0100P533	1026808
150 mm	2 x NPN	ELG1-0150N533	1029596
	2 x PNP	ELG1-0150P531	1026741
		ELG1-0150P533	1026809

- **Sub product family:** ELG Short Range
- **Operating range:** 5 m
- **Beam separation:** 10 mm

Detection height	Switching output	Type	Part no.
150 mm	2 x PNP	ELG1-0150P571	1028333

- **Sub product family:** ELG Short Range
- **Operating range:** 2 m
- **Beam separation:** 30 mm

Detection height	Switching output	Type	Part no.
90 mm	2 x NPN	ELG3-0090N511	1041095
	2 x PNP	ELG3-0090P511	1024290
		ELG3-0090P513	1025443
150 mm	2 x PNP	ELG3-0150P513	1025578
210 mm	2 x NPN	ELG3-0210N513	1052378
	2 x PNP	ELG3-0210P511	1025510
		ELG3-0210P513	1025438
330 mm	2 x NPN	ELG3-0330N511	1042302
	2 x PNP	ELG3-0330P113	1040134
		ELG3-0330P511	1025575
		ELG3-0330P513	1025576
		ELG3-0330P591	1042613
390 mm	2 x PNP	ELG3-0390P591	1042615
450 mm	2 x PNP	ELG3-0450P511	1025490
		ELG3-0450P591	1029489
570 mm	2 x PNP	ELG3-0570P511	1025501
690 mm	2 x NPN	ELG3-0690N511	1041956
	2 x PNP	ELG3-0690P511	1025499
930 mm	2 x PNP	ELG3-0930P511	1025492
1,050 mm	2 x PNP	ELG3-1050P511	1025452

- **Sub product family:** ELG Short Range
- **Operating range:** 1.5 m
- **Beam separation:** 30 mm

Detection height	Switching output	Type	Part no.
150 mm	2 x PNP	ELG3-0150P543S31	1109375
390 mm	2 x PNP	ELG3-0390P591S32	1109376
930 mm	2 x PNP	ELG3-0930P511S34	1109379
1,050 mm	2 x PNP	ELG3-1050P511S33	1109378

- **Sub product family:** ELG Long Range
- **Operating range:** 9 m
- **Beam separation:** 30 mm

Detection height	Switching output	Type	Part no.
210 mm	2 x NPN	ELG3-0210N541	1047484
1,230 mm	2 x NPN	ELG3-1230N541S35	1119251
		ELG3-1230N561S36	1119252

- **Sub product family:** ELG Long Range
- **Operating range:** 12 m
- **Beam separation:** 30 mm

Detection height	Switching output	Type	Part no.
150 mm	2 x NPN	ELG3-0150N521	1047932
	2 x PNP	ELG3-0150P521	1026475
210 mm	2 x NPN	ELG3-0210N521	1025613
	2 x PNP	ELG3-0210P521	1025574
		ELG3-0210P523	1055564
	ELG3-0210P561	1046812	
330 mm	2 x PNP	ELG3-0330P521	1057961
450 mm	2 x NPN	ELG3-0450N521	1025614
	2 x PNP	ELG3-0450P521	1025440
		ELG3-0450P561	1027894
	Relay	ELG3-0450R221	1024268
570 mm	2 x PNP	ELG3-0570P521	1025885
690 mm	2 x NPN	ELG3-0690N521	1025615
	2 x PNP	ELG3-0690P521	1025568
810 mm	2 x PNP	ELG3-0810P521	1025577
		ELG3-0810P523	1026177
930 mm	2 x NPN	ELG3-0930N521	1025616
	2 x PNP	ELG3-0930P521	1025511
	Relay	ELG3-0930R121	1025785
		ELG3-0930R221	1026176
		ELG3-0930R521	1025449
	ELG3-0930R523	1026537	

Detection height	Switching output	Type	Part no.
1,050 mm	2 x PNP	ELG3-1050P521	1025570
1,170 mm	2 x NPN	ELG3-1170N521	1025617
	2 x PNP	ELG3-1170P521	1025579
			ELG3-1170P523
1,230 mm	2 x NPN	ELG3-1230N521	1082945
1,410 mm	2 x NPN	ELG3-1410N521	1025618
		ELG3-1410P521	1025502
	Relay	ELG3-1410P523	1026179
1,650 mm	Relay	ELG3-1410R523	1053265
	2 x NPN	ELG3-1650N521	1025620
	2 x PNP	ELG3-1650P521	1025503
	1,890 mm	2 x NPN	ELG3-1890N521
ELG3-1890P521			1025504
Relay		ELG3-1890P523	1026826
2,070 mm	2 x PNP	ELG3-1890R121	1026180
		ELG3-2070P521	1025505
		ELG3-2070P523	1025572
		2,370 mm	2 x PNP
ELG3-2370P523	1026178		
3,090 mm	2 x PNP	ELG3-3090P521	1063717

- **Sub product family:** ELG Long Range
- **Operating range:** 12 m
- **Beam separation:** 60 mm

Detection height	Switching output	Type	Part no.	
900 mm	2 x PNP	ELG6-0900P521	1025447	
		Relay	ELG6-0900R521	1026181
			ELG6-0900R523	1025453
1,080 mm	2 x PNP	ELG6-1080P521	1025586	
1,200 mm	2 x PNP	ELG6-1200P561	1044292	
1,380 mm	2 x PNP	ELG6-1380P521	1025587	
			ELG6-1380P523	1025588
			ELG6-1380P561	1043870
	Relay	ELG6-1380R523	1025451	
		ELG6-1380R523S02	1026459	
1,620 mm	2 x PNP	ELG6-1620P521	1040686	
1,860 mm	2 x PNP	ELG6-1860P521	1025589	
			ELG6-1860P523	1025593
	Relay	ELG6-1860R521	1026182	
			ELG6-1860R523	1026458

Detection height	Switching output	Type	Part no.
2,040 mm	2 x PNP	ELG6-2040P523	1025594
	Relay	ELG6-2040R523S01	1026295
2,340 mm	2 x PNP	ELG6-2340P521	1025596
2,460 mm	2 x PNP	ELG6-2460P523	1024293
	Relay	ELG6-2460R521	1026183
3,120 mm	2 x PNP	ELG6-3120P521	1047475

- **Sub product family:** ELG Long Range
- **Operating range:** 2.5 m
- **Beam separation:** 60 mm

Detection height	Switching output	Type	Part no.
1,860 mm	2 x PNP	ELG6-1860P501S24	1066373

- **Sub product family:** ELG Long Range
- **Operating range:** 9 m
- **Beam separation:** 60 mm

Detection height	Switching output	Type	Part no.
900 mm	2 x NPN	ELG6-0900N541	1041568

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