

ELG series

Automation safety light curtain

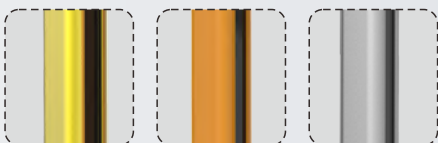
Due to its small size, the ELG series safety light curtain can be applied on various non-standard automatic machines. In the meantime, it has great advantages like high resolution, long sensing distance, and self-inspection function (independent dual output loop).



Product feature:

- Long sensing distance up to 5 meters.
- Dual loop and self-inspection function to ensure high safety and reliability.
- Quick response time, the fastest response time < 1ms;
- Low wide voltage power supply, the working voltage is DC10V-30V;
- Great ability to resist electromagnetic interference and can effectively resist influence by electromagnetic of various equipment motors.
- Wire synchronization technology to resist light interference effectively.
- Diverse brackets support different installation methods and suit for different applying environments.
- Proof dust and water well;
- The size is small, and cross-sectional size is 35*27mm

Color option: Gold/ yellow/ silver

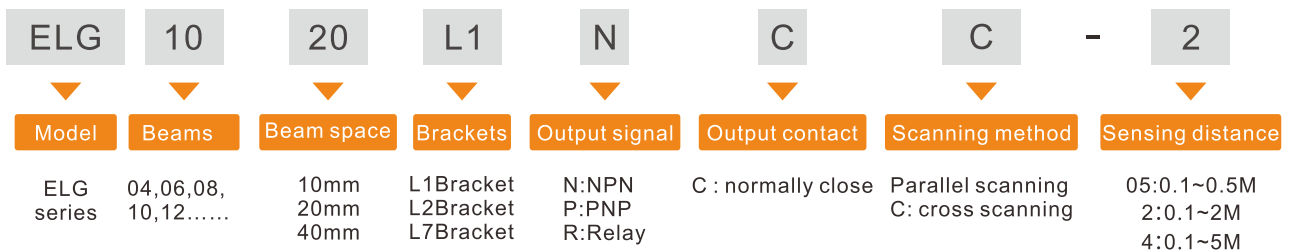


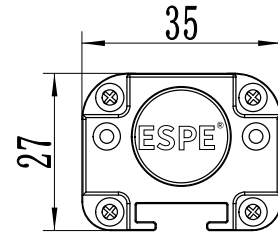
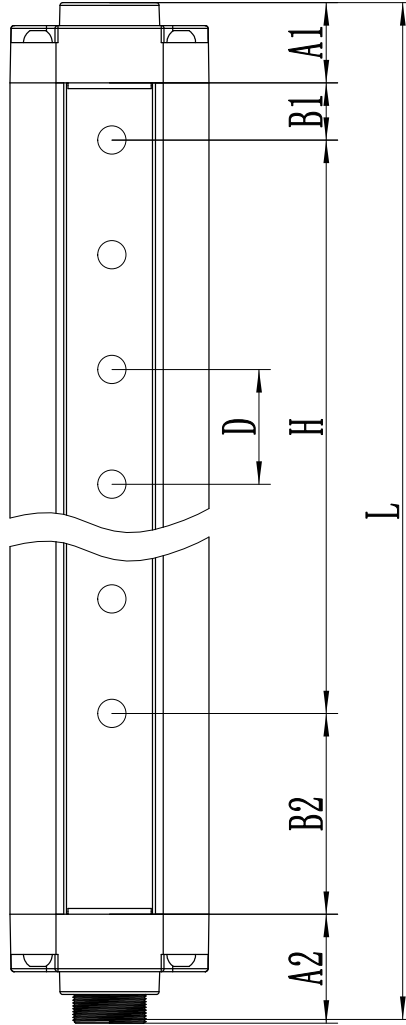
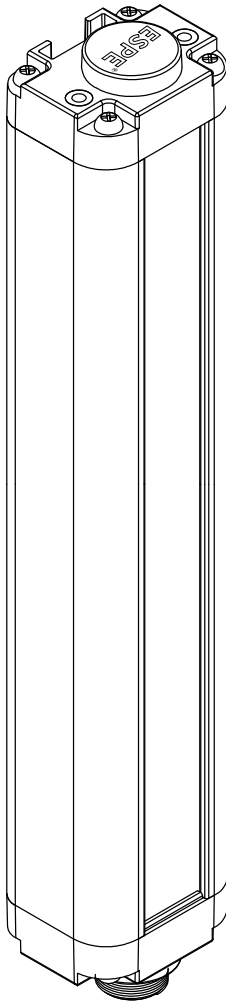
Technical parameter

Parameter of safety light curtain

Power supply	DC10V~30V
Capacity	<5W
Beam space	10mm,20mm,40mm
Resolution	15mm,25mm,45mm
Beams	10mm: 8,12,16.....144 20mm: 4,6,8.....72 40mm: 4,6,8.....36
Protective height	Protective height= (N-1)* beam space, N is beam quantity
Wave length	940nm
Response time	Response time = N*0.1ms + 0.4ms (N is beam quantity)
Type of output (OSSD)	PNP/NPN semiconductors, current <200mA, residual voltage: 1V max, leakage current: 1mA max. (Except voltage influenced by lengthen wire)
Protective circuit	Overvoltage protection, power supply reverse polarity protection, Overcurrent protection
Sensing distance	0.1~0.5m,0.1~2m,0.1~5m (remark: if have light reflection, please let us know)
Anti-optical interference	10000Lux(angle>5°)
Sensing method	Through-beam type
Synchronization	Wire synchronization
Enclosure material	Aluminum alloy
Enclosure rating	IP65
Housing cross-section	35*27mm
Ambient operating temperature	-10°C~55°C (without freezing)
Storage temperature	-30°C~70°C (without freezing)
Ambient operating humidity	When temperature is 20°C, humidity mas 85%

Explanation of model number (For example: ELG1020L1NCC-2)





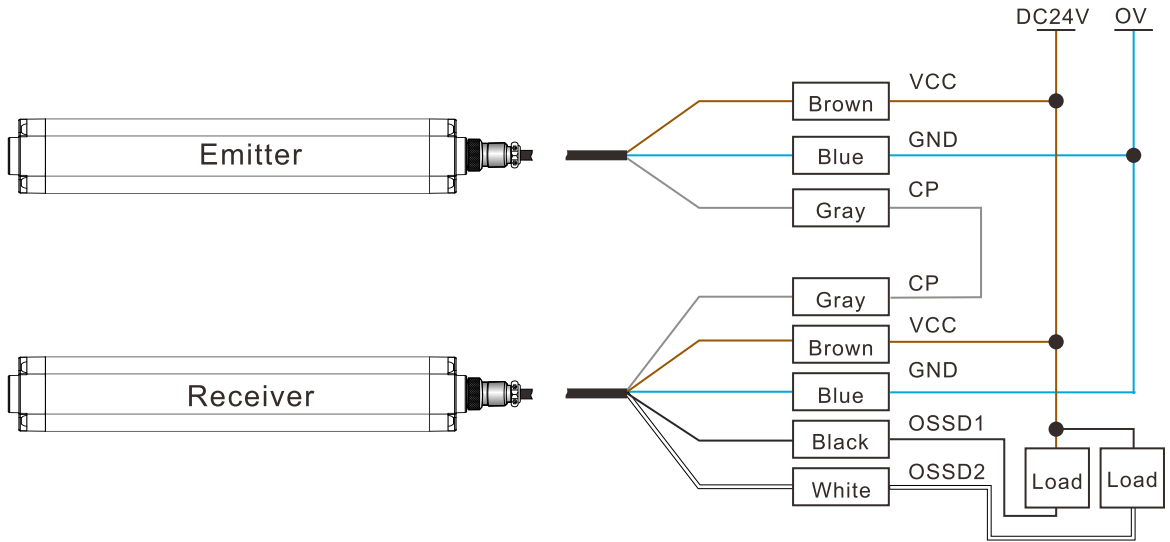
A1: Uppercover
 A2: Bottomcover + aviation cap
 B1: Upper stop-work range
 B2: Bottom stop-work range
 D: Beam gap
 H: Protective height
 L: Total height

A1=14mm; A2=20mm
 When D=10mm, B1=5mm; B2=25mm
 When D=20mm, B1=5mm; B2=35mm
 When D=40mm, B1=5mm; B2=35mm
 H is protective height: $H=(\text{beams}-1) * \text{beam space}$
 L is total height: $L=A1+A2+B1+B2+H$

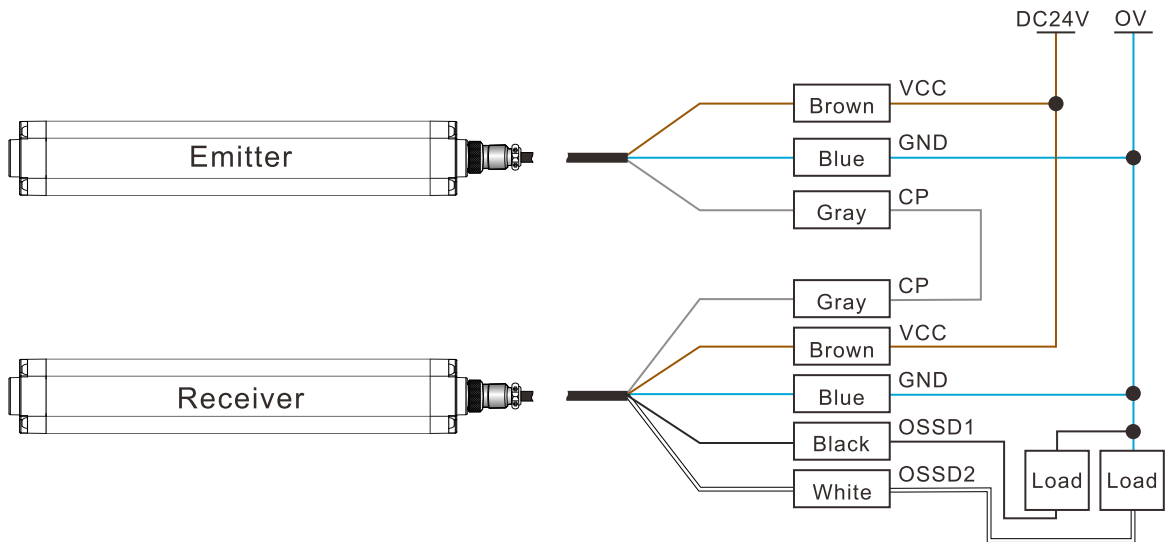
- EFP Series
- ESE Series
- ESN Series
- ESQC Series
- ELG Series**
- EB13 Series
- EB15 Series
- ESA Series
- ESP Series
- EFB Series
- ESF Series
- ESCL Series
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- EDS-L Series
- EMB-M01
- F27X Series

Wire connection

NPN type



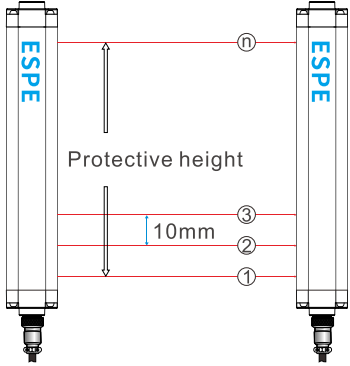
PNP type

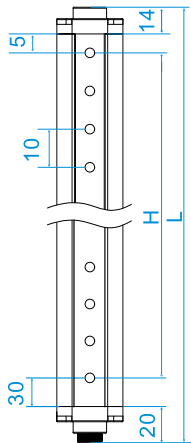


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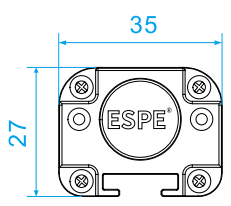
ELG selection sheet

- Beam space is 10mm, resolution 15mm

Shape	Beams (n)	Protective height(mm)	Total height (mm)	Model	Size L*W*H(mm)
	08	70	139	ELG0810	27*35*139
	12	110	179	ELG1210	27*35*179
	16	150	219	ELG1610	27*35*219
	20	190	259	ELG2010	27*35*259
	24	230	299	ELG2410	27*35*299
	28	270	339	ELG2810	27*35*339
	32	310	379	ELG3210	27*35*379
	36	350	419	ELG3610	27*35*419
	40	390	459	ELG4010	27*35*459
	44	430	499	ELG4410	27*35*499
	48	470	539	ELG4810	27*35*539
	52	510	579	ELG5210	27*35*579
	56	550	619	ELG5610	27*35*619
	60	590	659	ELG6010	27*35*659
	64	630	699	ELG6410	27*35*699
	68	670	739	ELG6810	27*35*739
72	710	779	ELG7210	27*35*779	
76	750	819	ELG7610	27*35*819	
80	790	859	ELG8010	27*35*859	
84	830	899	ELG8410	27*35*899	
88	870	939	ELG8810	27*35*939	
92	910	979	ELG9210	27*35*979	
96	950	1019	ELG9610	27*35*1019	
100	990	1059	ELG10010	27*35*1059	
104	1030	1099	ELG10410	27*35*1099	
108	1070	1139	ELG10810	27*35*1139	
112	1110	1179	ELG11210	27*35*1179	
116	1150	1219	ELG11610	27*35*1219	
120	1190	1259	ELG12010	27*35*1259	
124	1230	1299	ELG12410	27*35*1299	
128	1270	1339	ELG12810	27*35*1339	
.....	
144	1430	1499	ELG14410	27*35*1499	



Front view



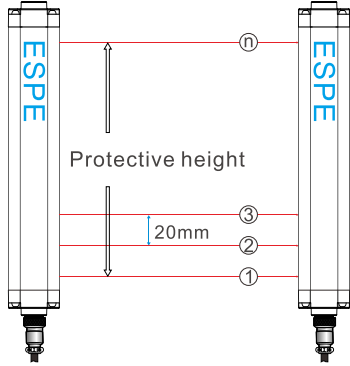
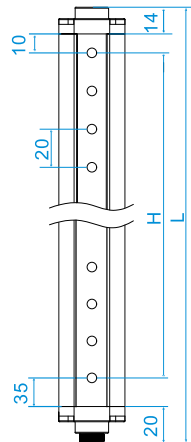
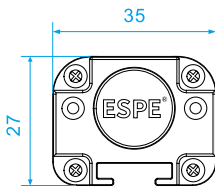
Top-view

H is protective height:
 $H = (\text{Beams} - 1) * \text{beam space}$
 L is total height: $L = A1 + A2 + B1 + B2 + H$

Besides of above model, we can customize the protective height according to your request.

ELG selection sheet

- Beam space is 20mm, resolution 25mm

Shape	Beams (n)	Protective height(mm)	Total height (mm)	Model	Size L*W*H(mm)	
  <p>Front view</p>  <p>Top-view</p> <p>His protective height: $H = (\text{Beams} - 1) * \text{beam space}$ Lis total height: $L = A1 + A2 + B1 + B2 + H$</p>	04	60	114	ELG0420	27*35*114	
	06	100	179	ELG0620	27*35*179	
	08	140	219	ELG0820	27*35*219	
	10	180	259	ELG1020	27*35*259	
	12	220	299	ELG1220	27*35*299	
	14	260	339	ELG1420	27*35*339	
	16	300	379	ELG1620	27*35*379	
	18	340	419	ELG1820	27*35*419	
	20	380	459	ELG2020	27*35*459	
	22	420	499	ELG2220	27*35*499	
	24	460	539	ELG2420	27*35*539	
	26	500	579	ELG2620	27*35*579	
	28	540	619	ELG2820	27*35*619	
	30	580	659	ELG3020	27*35*659	
	32	620	699	ELG3220	27*35*699	
	34	660	739	ELG3420	27*35*739	
	36	700	779	ELG3620	27*35*779	
	38	740	819	ELG3820	27*35*819	
	40	780	859	ELG4020	27*35*859	
	42	820	899	ELG4220	27*35*899	
	44	860	939	ELG4420	27*35*939	
	46	900	979	ELG4620	27*35*979	
	48	940	1019	ELG4820	27*35*1019	
	50	980	1059	ELG5020	27*35*1059	
	52	1020	1099	ELG5220	27*35*1099	
	54	1060	1139	ELG5420	27*35*1139	
	56	1100	1179	ELG5620	27*35*1179	
	58	1140	1219	ELG5820	27*35*1219	
	60	1180	1259	ELG6020	27*35*1259	
	62	1220	1299	ELG6220	27*35*1299	
	64	1260	1339	ELG6420	27*35*1339	

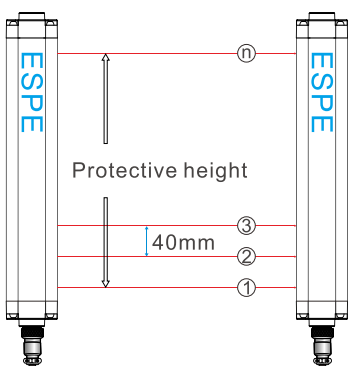
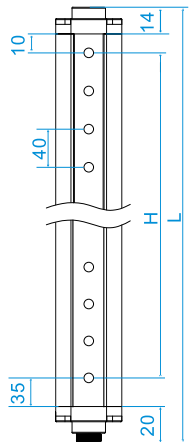
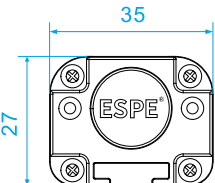
	72	1420	1499	ELG7220	27*35*1499	

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- F27X Series

Besides of above model, we can customize the protective height according to your request.

ELG selection sheet

- Beam space is 40mm, resolution 45mm

Shape	Beams (n)	Protective height(mm)	Total height (mm)	Model	Size L*W*H(mm)	
	04	120	199	ELG0440	27*35*199	
	06	200	279	ELG0640	27*35*279	
	08	280	359	ELG0840	27*35*359	
	10	360	439	ELG1040	27*35*439	
	12	440	519	ELG1240	27*35*519	
	14	520	599	ELG1440	27*35*599	
	16	600	679	ELG1640	27*35*679	
	18	680	759	ELG1840	27*35*759	
	20	760	839	ELG2040	27*35*839	
	22	840	919	ELG2240	27*35*919	
 <p>Front view</p>	24	920	999	ELG2440	27*35*999	
	26	1000	1079	ELG2640	27*35*1079	
	28	1080	1159	ELG2840	27*35*1159	
	30	1160	1239	ELG3040	27*35*1239	
	32	1240	1319	ELG3240	27*35*1319	
	34	1320	1399	ELG3440	27*35*1399	
	36	1400	1479	ELG3640	27*35*1479	
	 <p>Top-view</p>					

H is protective height:

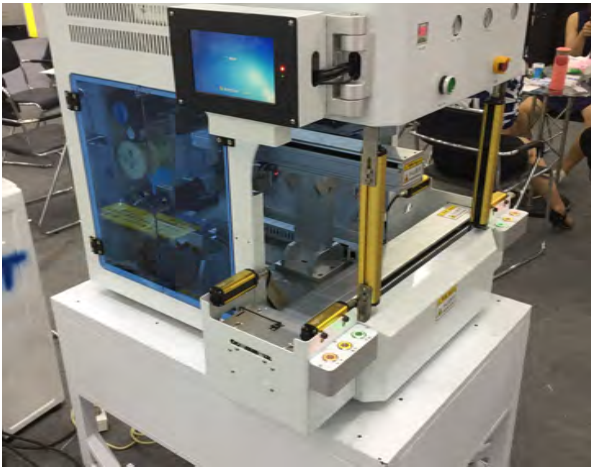
$$H = (\text{Beams} - 1) * \text{beam space}$$

$$L \text{ is total height: } L = A1 + A2 + B1 + B2 + H$$

Besides of above model, we can customize the protective height according to your request.

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Application case



Automatic assemble machine



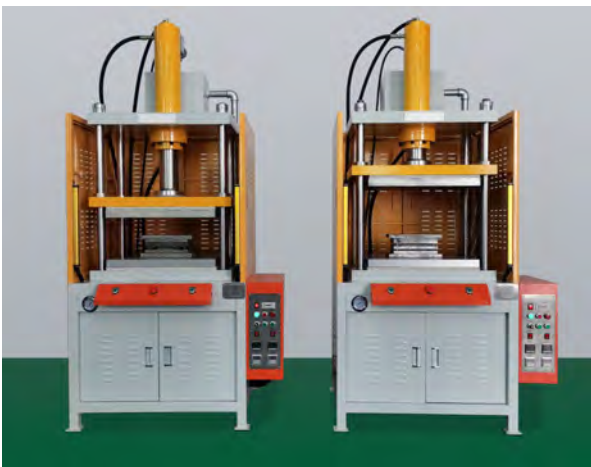
Servo press machine



Customized machine (non-standard machine)



Die Cutting Machine



Hydraulic press



Injection Molding Machine

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