

Нестандартные световые завесы безопасности машины ELG

Технические характеристики

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ELG series

Automation safety light curtain

Cause of small size, ELG series safety light curtain can be applied on various non-standard automatic machine. In the meantime, it has great advantage 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

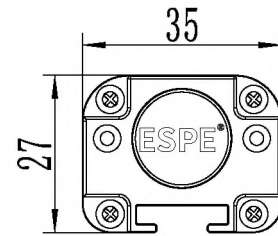
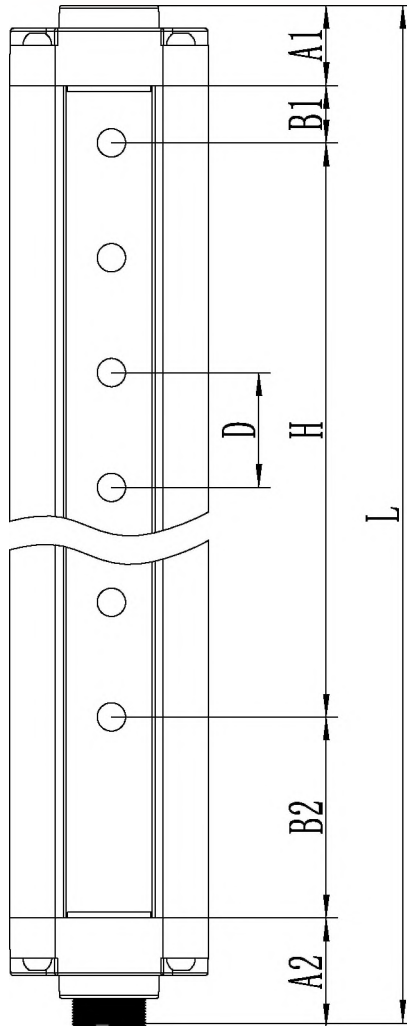
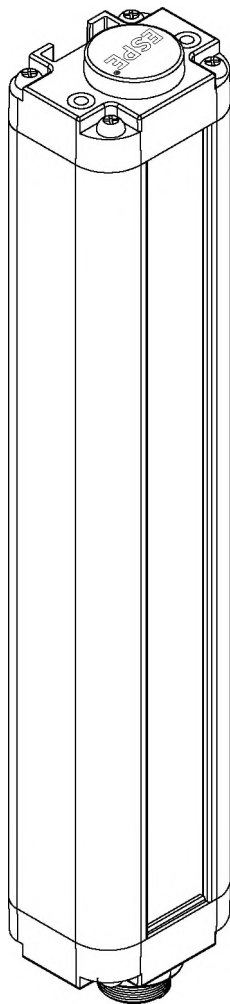


Technical parameter

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)

ELG	10	20	L1	N	C	C	-	2
Model	Beams	Beam space	Brackets	Output signal	Output contact	Scanning method		Sensing distance
ELG series	04,06,08, 10,12.....	10mm 20mm 40mm	L1Bracket L2Bracket L7Bracket	N:NPN P:PNP R:Relay	C : normally close	Parallel scanning C: cross scanning		05:0.1~0.5M 2:0.1~2M 4:0.1~5M



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

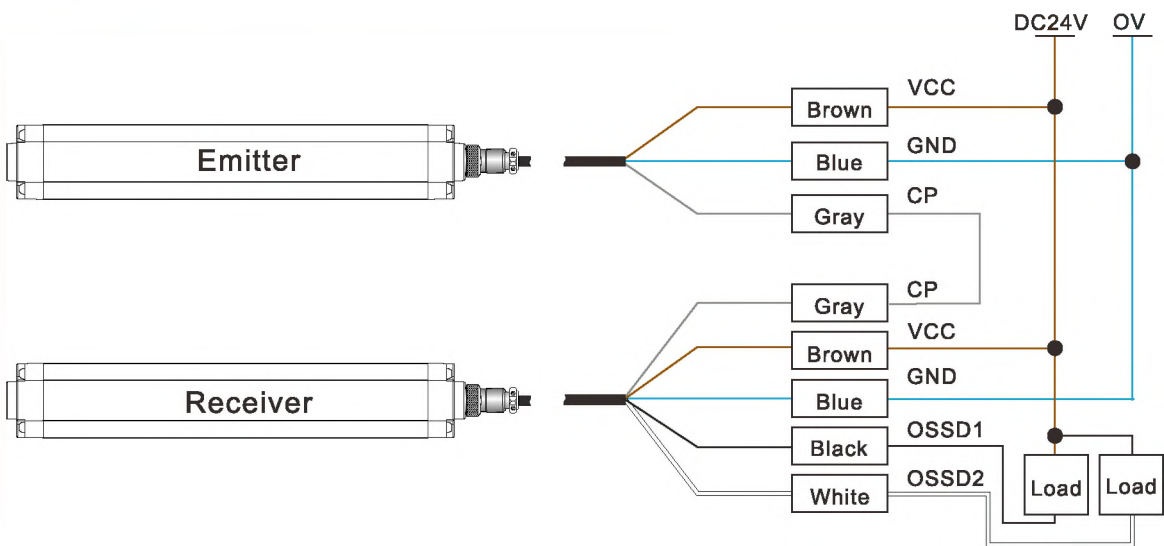
When D=40mm, B1=5mm; B2=35mm

H is protective height: $H = (\text{beams} - 1) * \text{beam space}$

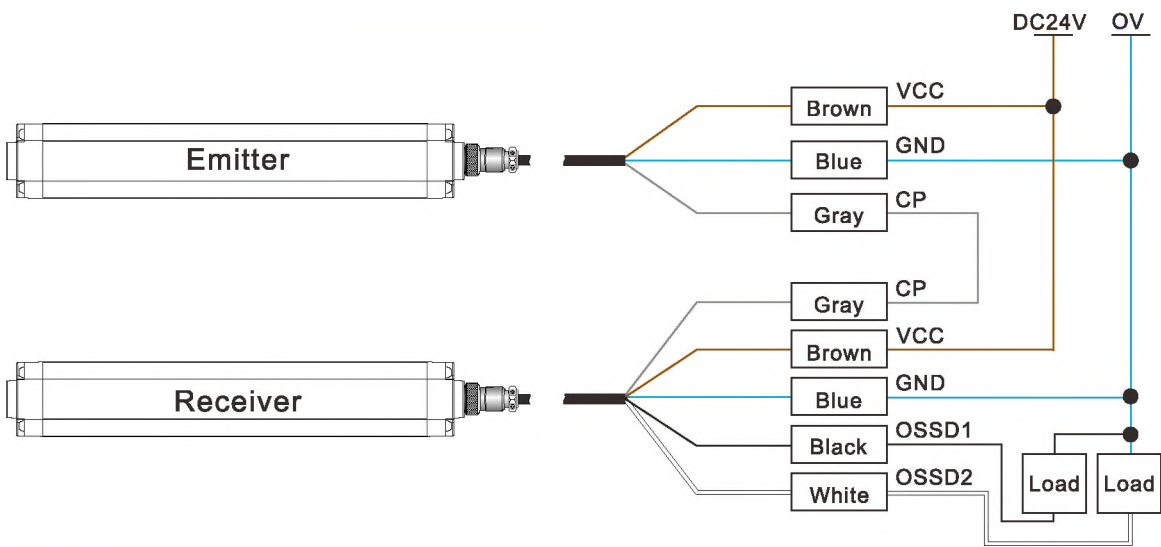
L is total height: $L = A1 + A2 + B1 + B2 + H$

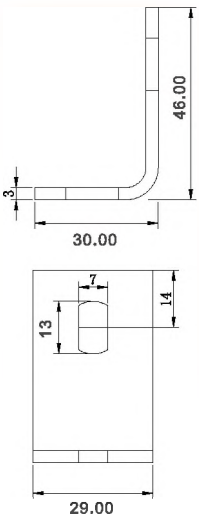
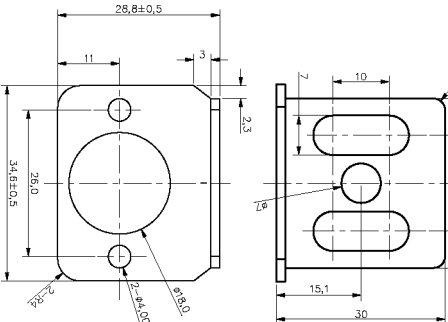
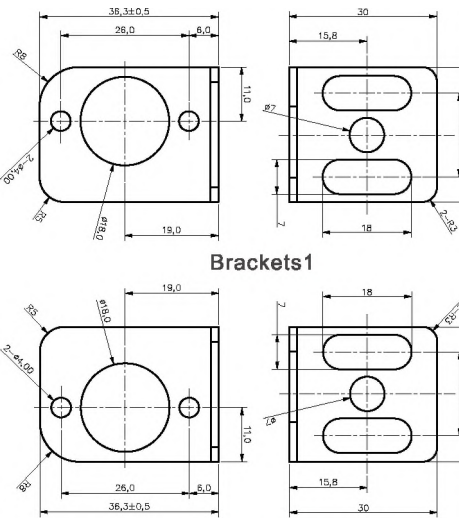
Wire connection

NPN type



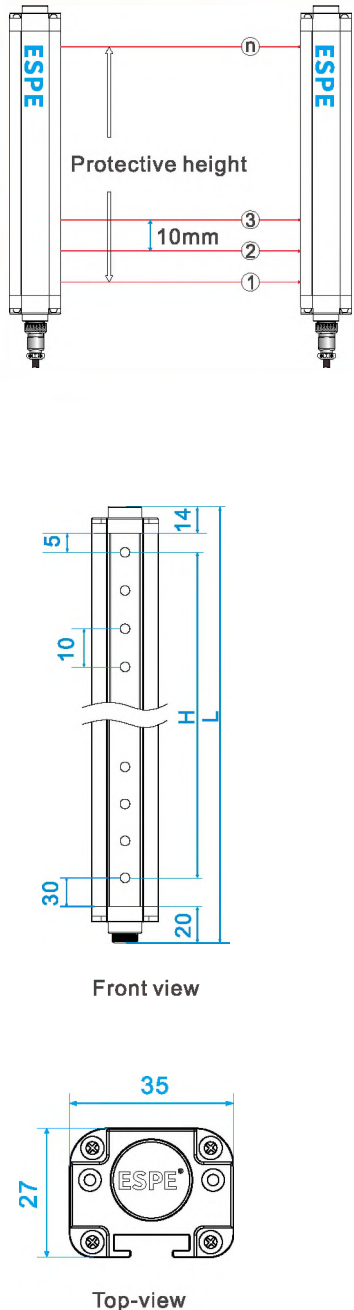
PNP type



Picture	Brackets	Accessories	Size picture
	L1 side-mounting brackets	1. L type brackets (4pcs) 2. Sliding pot (4pcs) 3. M6 grommet (4pcs) 4. M6 pad (4pcs) 5. M6*16 screw (4pcs) 6. M6*8 screw (4pcs)	
	L2 upper & bottom mounting	1. Brackets (4pcs) 2. M3*6 screw (8pcs)	
	L7 upper & bottom side mounting	1. Brackets (4pcs) 2. M6*12 screw (4pcs) 3. M3*6 screw (8pcs)	 Brackets1 Brackets2

ELG selection sheet

- Beam space is 10mm, resolution 15mm

Shape	Beams (n)	Protective height(mm)	Total height (mm)	Model	Size L*W*H(mm)
 Protective height 10mm Front view Top-view	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

H is protective height:

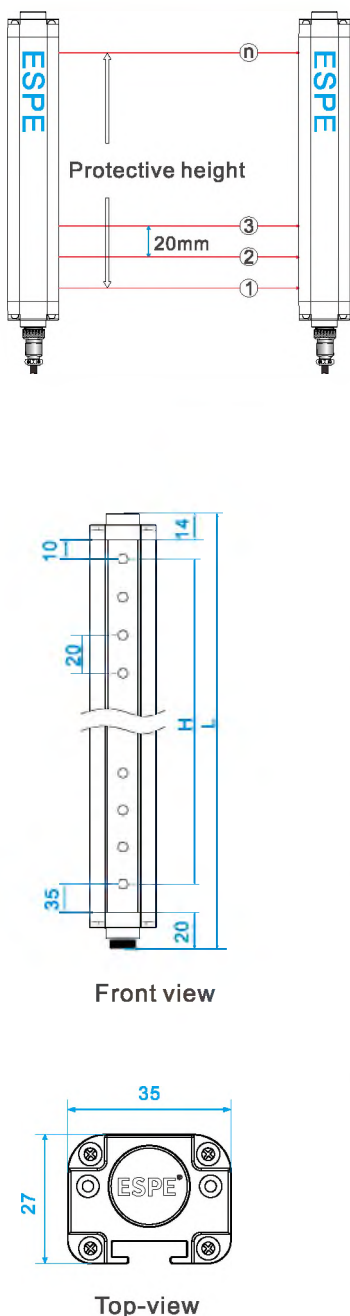
$H = (\text{Beams} - 1) * \text{beam space}$

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

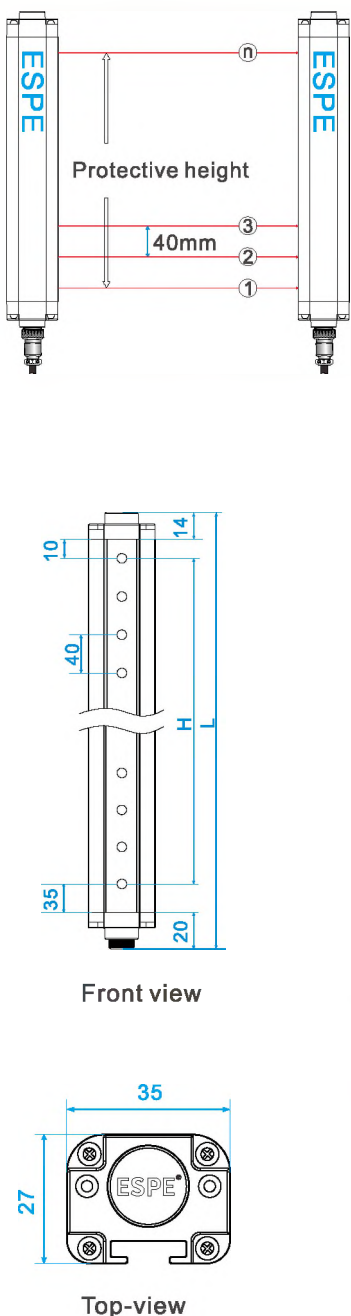
- Beam space is 20mm, resolution 25mm

Shape	Beams (n)	Protective height(mm)	Total height (mm)	Model	Size L*W*H(mm)
 Front view Top-view His protective height: $H = (\text{Beams} - 1) * \text{beam space}$ L is total height: $L = A1 + A2 + B1 + B2 + H$	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

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

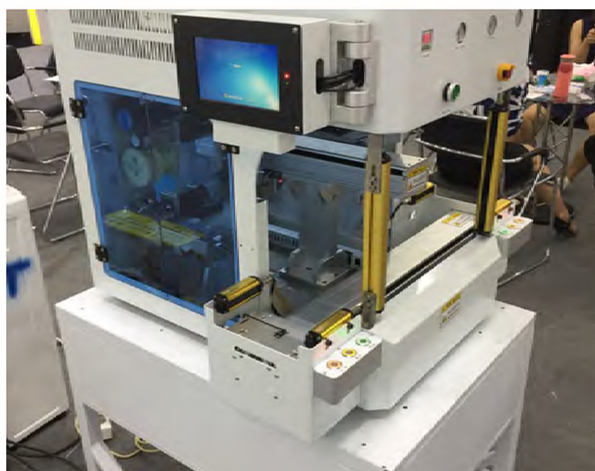
ELG selection sheet

- Beam space is 40mm, resolution 45mm

Shape	Beams (n)	Protective height(mm)	Total height (mm)	Model	Size L*W*H(mm)
 Front view Top-view H is protective height: $H = (\text{Beams} - 1) * \text{beam space}$ L is total height: $L = A1 + A2 + B1 + B2 + H$	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
	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

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

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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