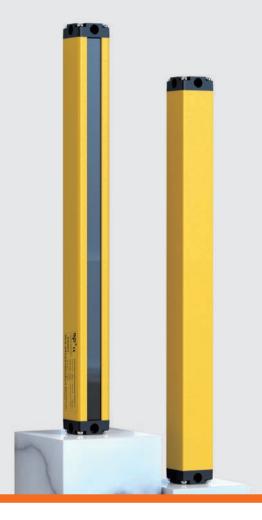
ELD Series

Area Sensor (Curtain)



Product Introduction

ELD series area sensor is small size for various automation use, with advantage: end-cover fixing installation, easy alignment, against interference of light and electromagnet, low capacity, quick response time.

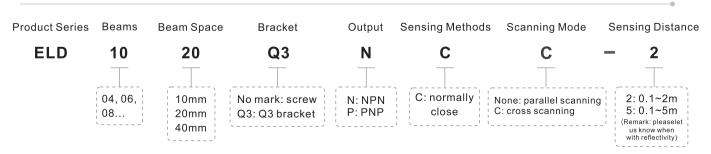
Product Feature

- 28*28mm small size;
- Quick response time (quickest less than 1ms);
- Low wide voltage DC10-30V;
- Good performance against electromagnetic interference of various machine motor;
- Wire-syn avoid interference of strong light;
- End-cover installation is easy mounting.

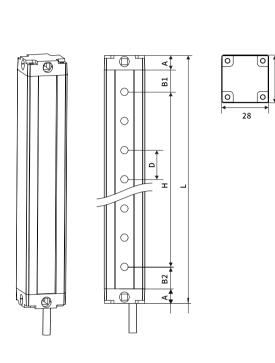
≅ Product Parameter

Power Supply	DC10V~30V		
Capacity	<5W		
Beam Space	10mm, 20mm, 40mm		
Resolution	15mm, 25mm, 45mm		
	10mm: 8, 12, 16,148		
Beams	20mm: 4, 6, 8,74		
	40mm: 4, 6, 8,36		
Protective Height	Protection height=(N-1)*beam space, (N is beams)		
Light Wavelength	940nm		
Response Time	Response Time= (N * 0.1ms) +0.4ms (N is beams)		
Safety Output (OSSD)	PNP or NPN Load current ≤ 200mA, residual voltage ≤ 1V (except for voltage drop caused by cable extension) and leakage current ≤ 1mA.		
Protective Circuit	Overvoltage protection, power supply reverse protection and overcurrent protection.		
Sensing Distance	0.1~2m, 0.1~5m (Remark: please let us know when with reflectivity)		
Against Optical Interference	10000 Lux (angle>5°)		
Sensing Method	Thru-beam		
Synchronization	Wire-syn		
Enclosure Material	Aluminum alloy		
Enclosure Protection Rate	IP65		
Sectional Size	28*28mm		
Ambient Operating Temperature	-10°C~55°C (no freezing)		
Storage Temperature	-30°C~70°C (no freezing)		
Ambient Operating Humidity	When temperature 20°C, the humidity max. 85%		

✓ Model Selection (e.g.: ELD-1020Q3NCC-2)



Product Size



Screw Mounting

A1: Upper end cover

A2: Bottom cover + aviation terminal

B1: Up blind area

B2: Bottom blind area

D: Beam space (10mm, 20mm, 40mm)

H: Protection height

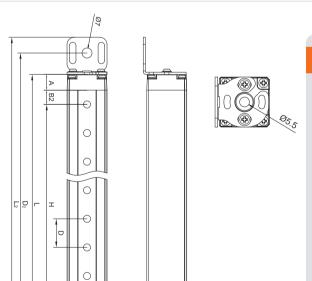
L: Total Height

A is 10mm

When D=10mm, B1=5mm, B2=5mm When D=20mm, B1=10mm, B2=10mm When D=40mm, B1=20mm, B2=20mm

H=(Beams-1)*beam space

L=A1+A2+B1+B2+H



Q3 Bracket Mounting

A1: Upper end cover

A2: Bottom cover + aviation terminal

B1: Up blind area

B2: Bottom blind area

D: Beam space (10mm, 20mm, 40mm)

H: Protection height

L: Total Height

A is 11mm

When D=10mm, B1=5mm, B2=5mm $\,$

When D=20mm, B1=10mm, B2=10mm

When D=40mm, B1=20mm, B2=20mm

H=(Beams-1)*beam space

L=A1+A2+B1+B2+H

ELD Model Selection Table

• Beam space 10mm, resolution 15mm

Picture	Beams (n)	Protection Height (mm)	Total Height (mm)	Model
	08	70	100	ELD0810
	12	110	140	ELD1210
ESPE	16	150	180	ELD1610
	20	190	220	ELD2010
	24	230	260	ELD2410
3-3-	28	270	300	ELD2810
② ①	32	310	340	ELD3210
	36	350	380	ELD3610
	40	390	420	ELD4010
	44	430	460	ELD4410
	48	470	500	ELD4810
	52	510	540	ELD5210
+ + 0	56	550	580	ELD5610
1 0	60	590	620	ELD6010
	64	630	660	ELD6410
	68	670	700	ELD6810
	72	710	740	ELD7210
	76	750	780	ELD7610
<u>u</u>	80	790	820	ELD8010
	84	830	860	ELD8410
Ш	88	870	900	ELD8810
Front View	92	910	940	ELD9210
	96	950	980	ELD9610
	100	990	1020	ELD10010
	104	1030	1060	ELD10410
\$ 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	108	1070	1100	ELD10810
©	112	1110	1140	ELD11210
Top View	116	1150	1180	ELD11610
Top view	120	1190	1220	ELD12010
	124	1230	1260	ELD12410
H is protection height=(beams-1)*beam space	128	1270	1300	ELD12810
L is total height=end covers+ up & bottom				
blind area + protection height	148	1470	1500	ELD14810

Remark: Beside above models, other light curtains can be customized

ELD Model Selection Table

• Beam space 20mm, resolution 25mm

Picture	Beams (n)	Protection Height (mm)	Total Height (mm)	Model
	04	60	100	ELD0420
	06	100	140	ELD0620
ESPE	08	140	180	ELD0820
# #	10	180	220	ELD1020
	12	220	260	ELD1220
3	14	260	300	ELD1420
②	16	300	340	ELD1620
	18	340	380	ELD1820
	20	380	420	ELD2020
	22	420	460	ELD2220
2 2 1 2 1	24	460	500	ELD2420
-	26	500	540	ELD2620
<u> </u>	28	540	580	ELD2820
T 100	30	580	620	ELD3020
	32	620	660	ELD3220
	34	660	700	ELD3420
	36	700	740	ELD3620
	38	740	780	ELD3820
e	40	780	820	ELD4020
	42	820	860	ELD4220
	44	860	900	ELD4420
Front View	46	900	940	ELD4620
	48	940	980	ELD4820
	50	980	1020	ELD5020
[OL 10] A	52	1020	1060	ELD5220
	54	1060	1100	ELD5420
	56	1100	1140	ELD5620
Top View	58	1140	1180	ELD5820
10p view	60	1180	1220	ELD6020
	62	1220	1260	ELD6220
H is protection height=(beams-1)*beam space	64	1260	1300	ELD6420
L is total height=end covers+ up & bottom				
blind area + protection height	74	1460	1500	ELD7420

Remark: Beside above models, other light curtains can be customized

ELD Model Selection Table

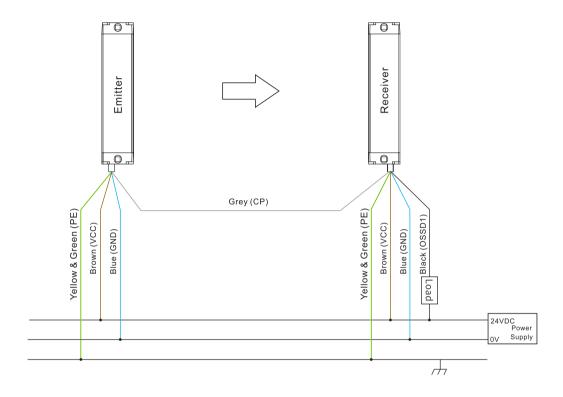
• Beam space 40mm, resolution 45mm

Picture	Beams (n)	Protection Height (mm)	Total Height (mm)	Model
	04	120	180	ELD0440
0	06	200	260	ELD0640
ESPE	08	280	340	ELD0840
	10	360	420	ELD1040
	12	440	500	ELD1240
③ →	14	520	580	ELD1440
	16	600	660	ELD1640
	18	680	740	ELD1840
	20	760	820	ELD2040
	22	840	900	ELD2240
	24	920	980	ELD2440
27 0	26	1000	1060	ELD2640
<u> </u>	28	1080	1140	ELD2840
104	30	1160	1220	ELD3040
	32	1240	1300	ELD3240
	34	1320	1380	ELD3440
	36	1400	1460	ELD3640
Ц				
Front View				
<u> </u>				
28				
28				
Top View				
H is protection height=(beams-1)*beam space				
L is total height=end covers+ up & bottom blind area + protection height				

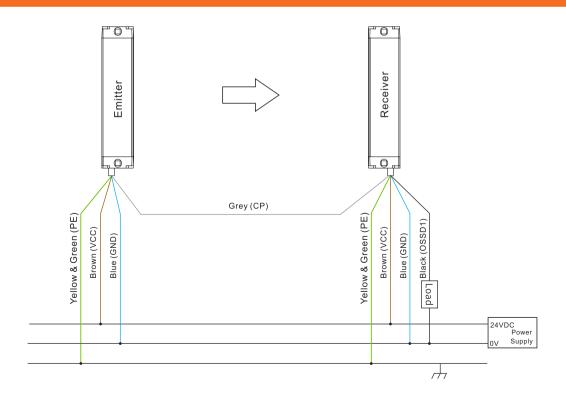
Remark: Beside above models, other light curtains can be customized

Wire Diagram

NPN



PNP



Option of Bracket

Picture	Name	Accessories	Size
	Screw fixing (from front/side)	M4*30 screw (4pcs)	None
	Q3 up & bottom mounting bracket	Up & bottom bracket (4pcs) M6*16 screw (4pcs) M6 pad (4pcs) M6 spring washer (4pcs) M3*6 screw (8pcs)	28 07 26

Application

