

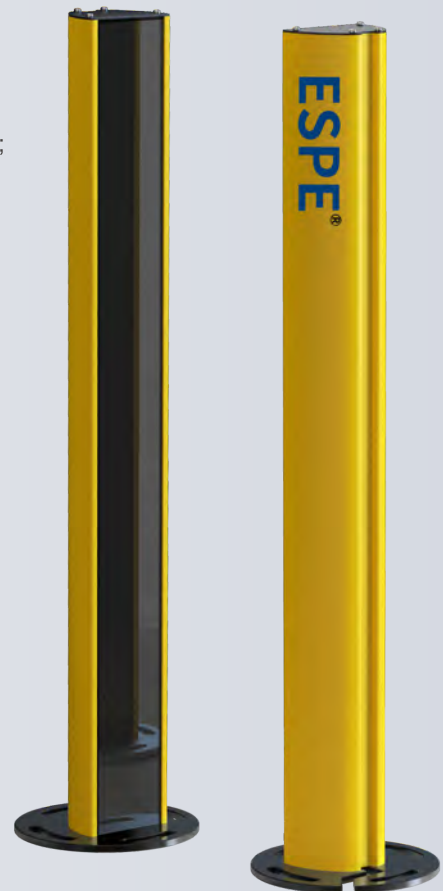
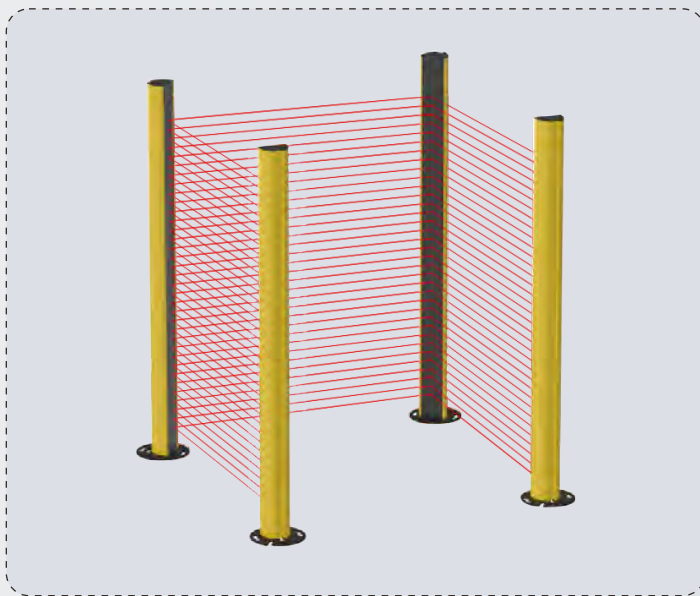
## ESQC series

# Multi-sided safety light curtain

ESQC area protection safety light curtain, can work with ESN model and ESE model to form a multiple safety protection side. The standing column can be installed on ground directly, and fixed with light barrier & mirrors to form multiple protection side.

### Product features

- Multi-side protection but only 1 pair of curtain;
- Long sensing distance, for single side, distance can reach 30 meters;
- High safety performance, cause of dual loop and self-inspection design;
- It has strong anti-electromagnetic interference ability, can effectively resist various electromagnetic interference influenced by machine motors.
- The interior of curtains adopts a seismic structure and aluminum alloy shell, which is good at anti-shock;
- Wire synchronization technology, it has strong anti-light interference ability;
- Multiple installation methods, and a variety of installation rack options;

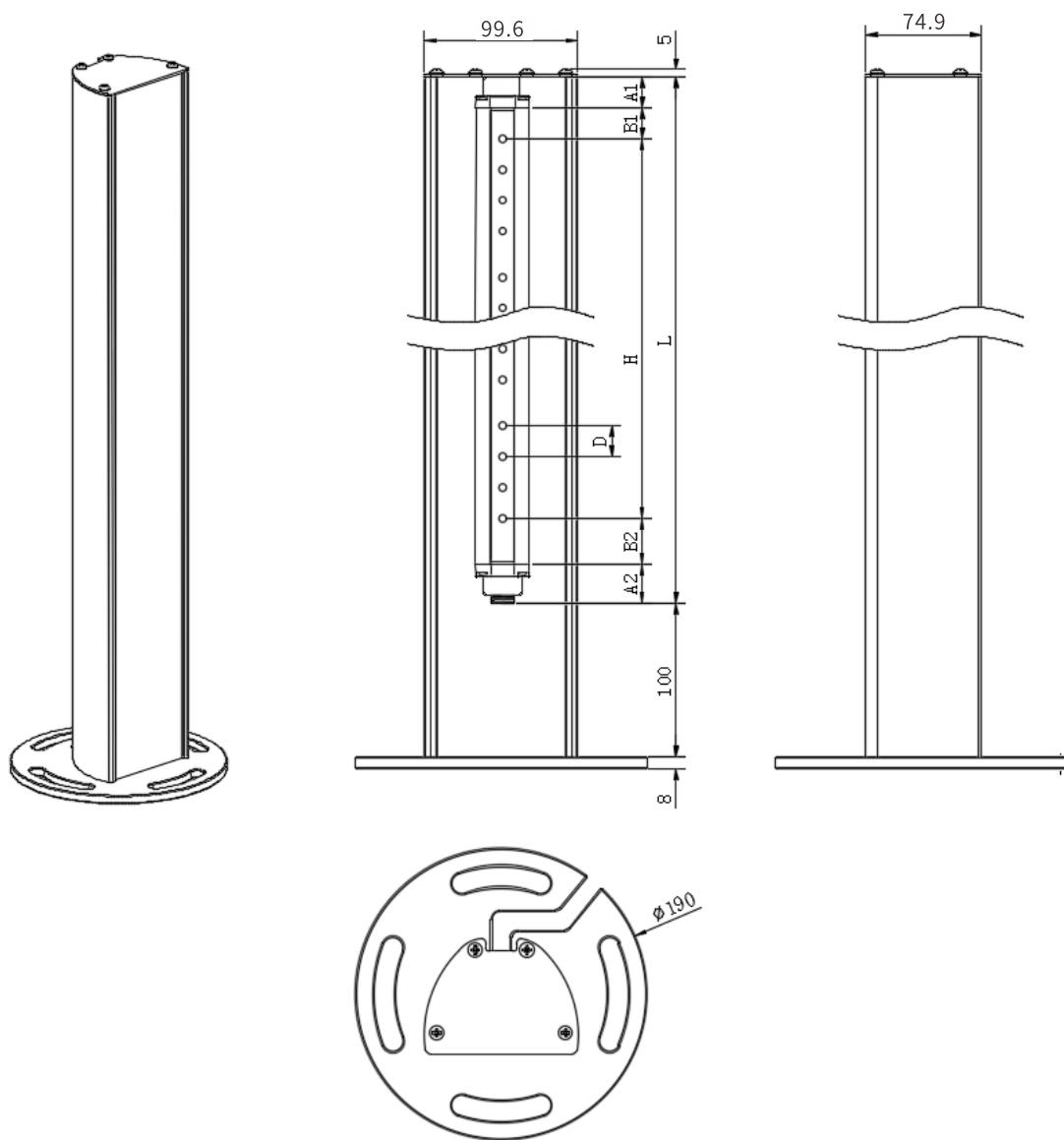


## Technical parameter

Parameter of safety light curtain	
Power supply	DC10V~30V
Capacity	<5W
Beam gap	10mm, 20mm, 40mm
Resolution	20mm, 30mm, 50mm
Beams	10mm: 32, 36, 40.....176
	20mm: 16, 18, 20.....88
	40mm: 8, 10, 12.....44
Protective height	Protective height=(N-1)*beam gap, N is beam quantity.
Wave length	940nm
Response time	Response time=(N*0.1ms)+0.4ms (N is beams)
Type of output (OSSD)	PNP/ NPN semiconductors, Load current 200mA max, residual voltage: 1V max (expect voltage influenced by extended wire), leakage current: 1mA max.
Protective circuit	Overload voltage protection, power supply reverse polarity protection, over current protection.
Sensing distance	0.1~30m (If reflective light environment, please let us know in advanced)
Anti-optical interference	10000Lux(I >5°)
Sensing method	Through beam
Synchronizations	Wire synchronizations
Enclosure material	Aluminum alloy
Enclosure rating	IP65
Housing cross-section	99.6*75mm
Vibration resistance	10 Hz ... 55 Hz, double amplitude each in X, Y and Z directions for 20times.
Ambient operating temperature	-10°C~55°C (with no freezing)
Storage temperature	-30°C~70°C (with no freezing)
Ambient operating humidity	when temperature is 20°C, humidity max 85%

## Explanation of model number (For example: ESQC-N1620NC2-5)

ESQC	—	N	16	20	N	C	2	—	5
▼		▼	▼	▼	▼	▼	▼		▼
Model		Series	Beams	Beam space	Output type	Output contact	Side		Circumference
ESQC series		N: ESN curtain	08, 10, 12 .....	10mm 20mm 40mm	N: NPN P: PNP	C : normally close	2: 2 side protection 3: 3 side protection 4: 4 side protection		5: 0.1~5M 10: 0.1~10M 20: 0.1~20M 30: 0.1~30M



A1: Upper cover  
 A2: Bottom cover + aviation cap  
 B1: Upper stop-work range  
 B2: Bottom stop-work range  
 D: Beam space  
 H: Protective height

L: Total height of light curtain

$L(\text{total height}) = A1 + A2 + B1 + B2 + H$  (referring ESN or ESE size)

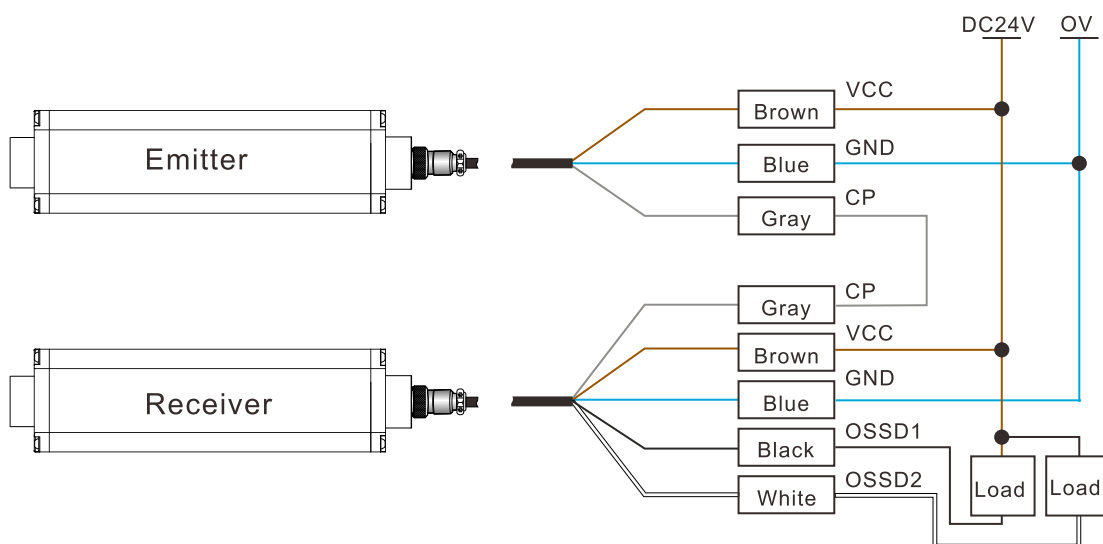
$H(\text{protective height}) = (\text{beams} - 1) * \text{beam space}$

Height of column =  $L + 100$

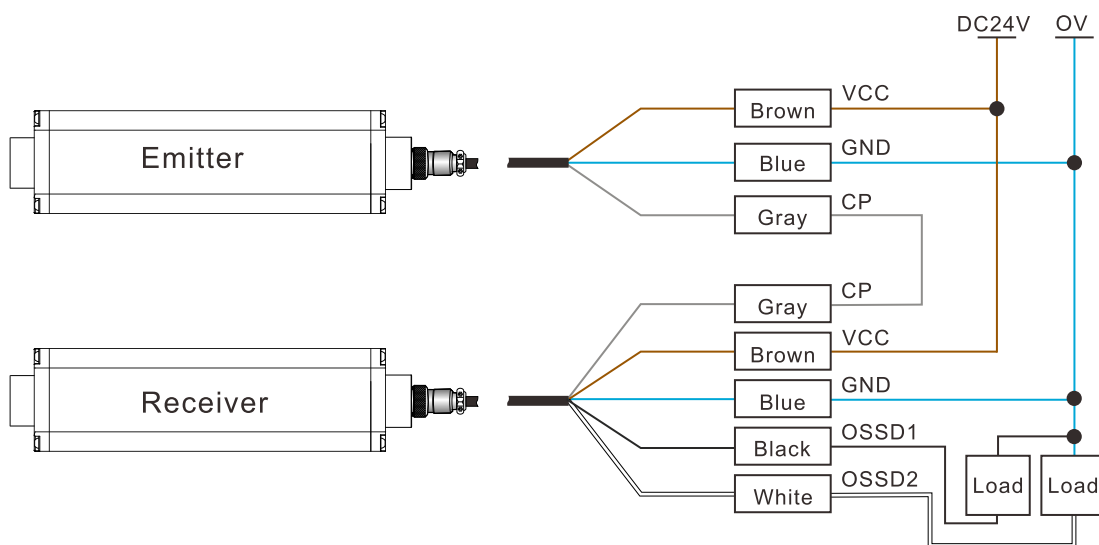
EFP Series
ESE Series
ESN Series
<b>ESQC Series</b>
ELG Series
EB13 Series
EB15 Series
ESA Series
ESP Series
EFB Series
ESF Series
ESCL Series
ESCF Series
ESCH Series
ESCC Series
ESR Series
EDL-R1 Series
EPL Series
EPS Series
EPC Series
EPM Series
EPK Series
EDS-R Series
EDS-L Series
EMB-M01
F27X Series

## Wire connection

### NPN type



### PNP type



EFP Series

ESE Series

ESN Series

ESQC Series

ELG Series

EB13 Series

EB15 Series

ESA Series

ESP Series

EFB Series

ESF Series

ESCL Series

ESCF Series

ESCH Series

ESCC Series

ESR Series

EDL-R1 Series

EPL Series

EPS Series

EPC Series

EPM Series

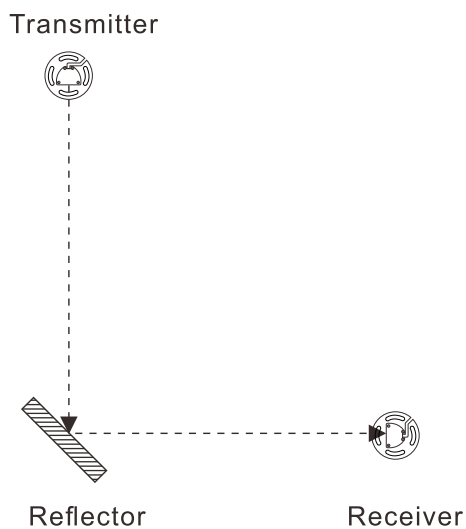
EPK Series

EDS-R Series

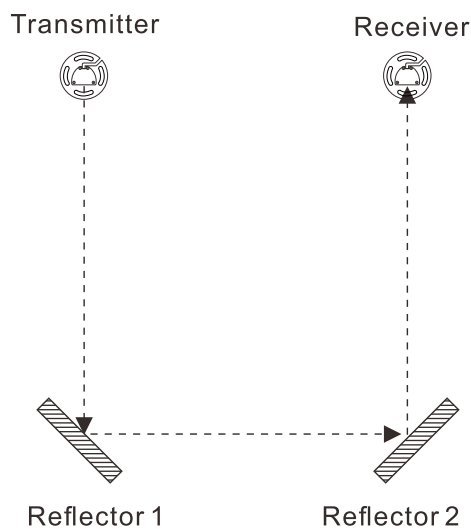
EDS-L Series

EMB-M01

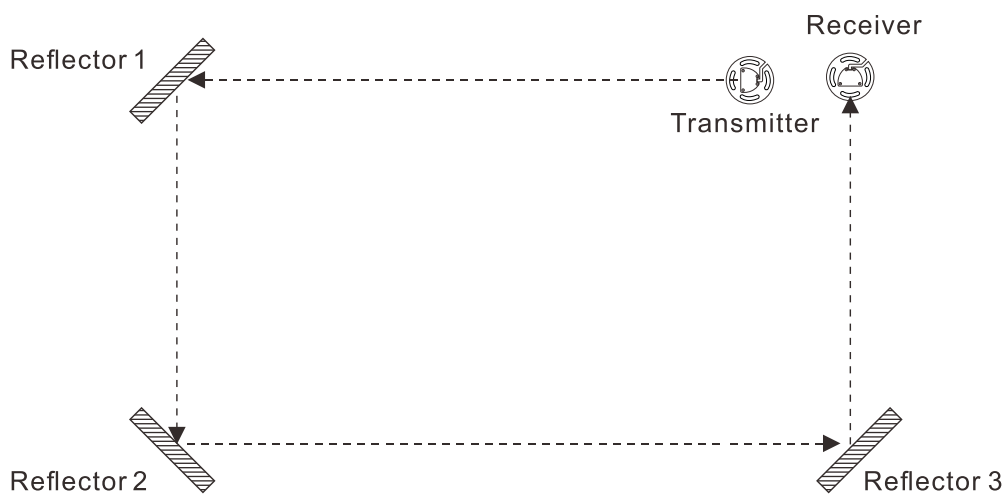
F27X Series



2 side protection



3 side protection



4 side protection

EFP Series

ESE Series

ESN Series

ESQC Series

ELG Series

EB13 Series

EB15 Series

ESA Series

ESP Series

EFB Series

ESF Series

ESCL Series

ESCF Series

ESCH Series

ESCC Series

ESR Series

EDL-R1 Series

EPL Series

EPS Series

EPC Series

EPM Series

EPK Series

EDS-R Series

EDS-L Series

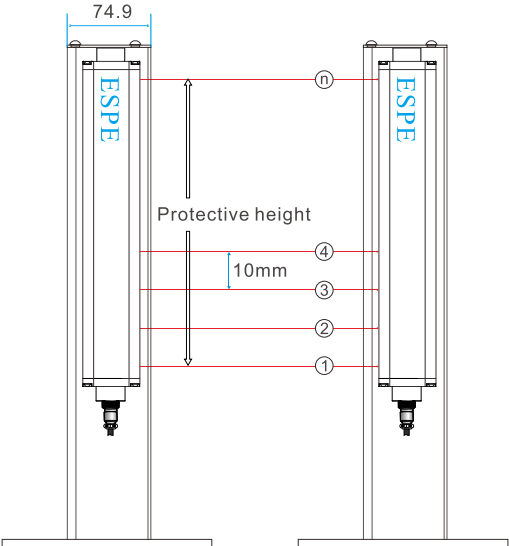
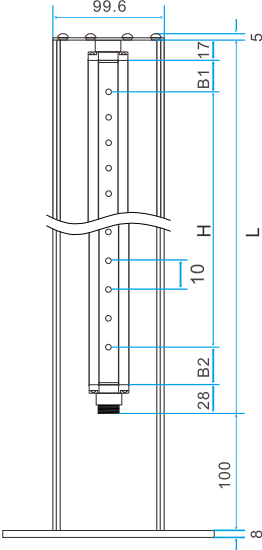
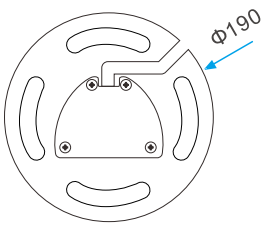
EMB-M01

F27X Series

- Model selection, please refer to ESN model selection sheet

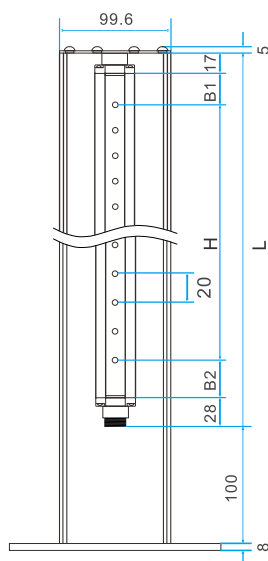
## ESQC selection sheet

- Beam space is 10mm, resolution 20mm

Picture	Beams (n)	Protective height (mm)	Total height (mm)	Mode
	32	310	490	ESQC-N3210
	36	350	530	ESQC-N3610
	40	390	570	ESQC-N4010
	44	430	610	ESQC-N4410
	48	470	650	ESQC-N4810
	52	510	690	ESQC-N5210
	56	550	730	ESQC-N5610
	60	590	770	ESQC-N6010
	64	630	810	ESQC-N6410
	68	670	850	ESQC-N6810
	72	710	890	ESQC-N7210
	76	750	930	ESQC-N7610
	80	790	970	ESQC-N8010
	84	830	1010	ESQC-N8410
	88	870	1050	ESQC-N8810
	92	910	1090	ESQC-N9210
 <p>Front view</p>  <p>Top-view</p>	96	950	1130	ESQC-N9610
	100	990	1170	ESQC-N10010
	104	1030	1210	ESQC-N10410
	108	1070	1250	ESQC-N10810
	112	1110	1290	ESQC-N11210
	116	1150	1330	ESQC-N11610
	120	1190	1370	ESQC-N12010
	124	1230	1410	ESQC-N12410
	128	1270	1450	ESQC-N12810
	132	1310	1490	ESQC-N13210
	136	1350	1530	ESQC-N13610
	140	1390	1570	ESQC-N14010
	144	1430	1610	ESQC-N14410
	148	1470	1650	ESQC-N14810
	152	1510	1690	ESQC-N15210
	.....	.....	.....	.....
	176	1750	1930	ESQC-N17610

# Safety Light Curtain

- |                    |
|--------------------|
| EFP Series         |
| ESE Series         |
| ESN Series         |
| <b>ESQC Series</b> |
| ELG Series         |
| EB13 Series        |
| EB15 Series        |
| ESA Series         |
| ESP Series         |
| EFB Series         |
| ESF Series         |
| ESCL Series        |
| ESCF Series        |
| ESCH Series        |
| ESCC Series        |
| ESR Series         |
| EDL-R1 Series      |
| EPL Series         |
| EPS Series         |
| EPC Series         |
| EPM Series         |
| EPK Series         |
| EDS-R Series       |
| EDS-L Series       |
| EMB-M01            |
| F27X Series        |



Top-view

<https://www.espeyp.com>

## ESQC selection sheet

- Beam space is 40mm, resolution 50mm

Picture	Beams (n)	Protective height (mm)	Total height (mm)	Mode
	08	280	470	ESQC-N0840
	12	440	630	ESQC-N1240
	16	600	790	ESQC-N1640
	20	760	950	ESQC-N2040
	24	920	1110	ESQC-N2440
	28	1080	1270	ESQC-N2840
	32	1240	1430	ESQC-N3240
	36	1400	1590	ESQC-N3640
	40	1560	1750	ESQC-N4040
	44	1720	1910	ESQC-N4440

- EFP Series
- ESE Series
- ESN Series
- ESQC Series**
- ELG Series
- EB13 Series
- EB15 Series
- ESA Series
- ESP Series
- EFB Series
- ESF Series
- ESCL Series
- ESCF Series
- ESCH Series
- ESCC Series
- ESR Series
- EDL-R1 Series
- EPL Series
- EPS Series
- EPC Series
- EPM Series
- EPK Series
- EDS-R Series
- EDS-L Series
- EMB-M01
- F27X Series