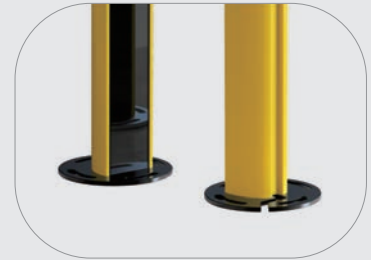
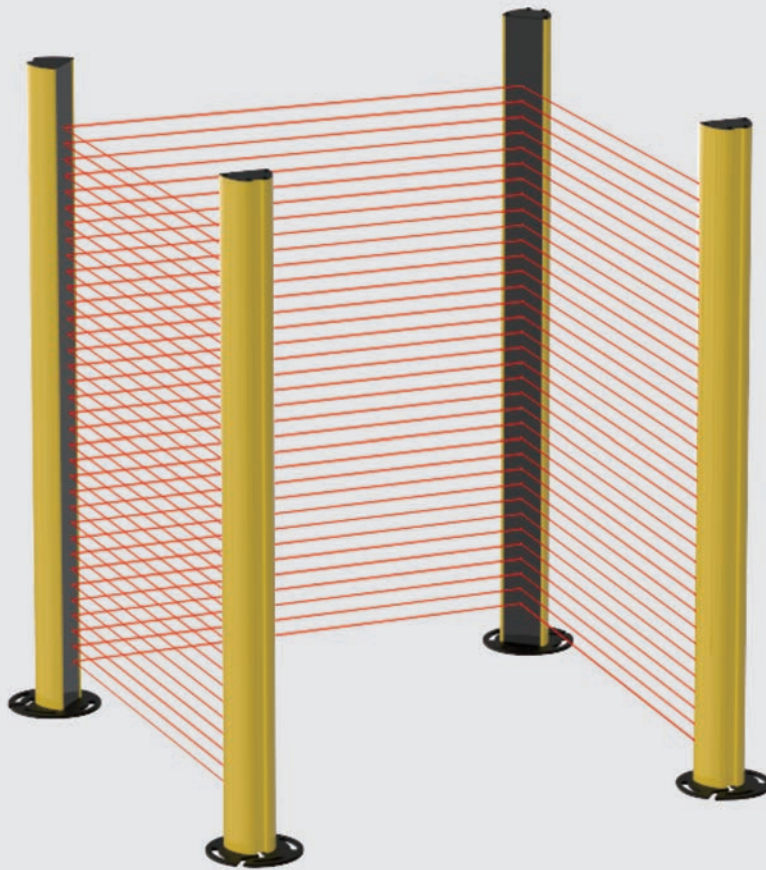
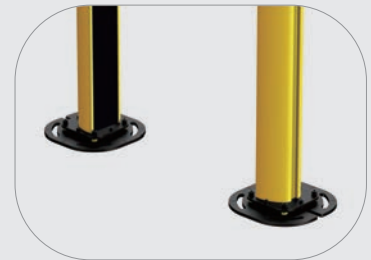


ESQC Series Multiple Side Safety Light Curtain



Standard base



Adjustable base

Product Introduction

ESQC model is consist of ESN series (or ESE series) curtain and reflector mirrors to form a multiple side protection, major used for automation machine need area protection. The standing column can be installed on the ground directly.

Product Feature

- Multi-sided protection with one pair of safety light curtains;
- Long sensing distance;
- Independent dual loop with self-diagnosis for high safety performance;
- Anti-shock circuit and strong aluminum alloy shell avoid vibration interference;
- Wire-syn technology has strong anti-light interference ability;
- Multiple installation methods for different environment.

Safety Light Curtain

Product Parameter

Power Supply	DC24V±20%
Capacity	<5W
Beam Space	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	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.
Protective Surface Sensing Distance	0~5m, 0~10m, 0~20m, 0~30m
Against Optical Interference	10000 Lux (angle>5°)
Sensing Method	Thru-beam
Synchronization	Wire-syn
Enclosure Material	Aluminum alloy
Enclosure Protection Rate	IP65
Sectional Size	99.6*75mm
Vibration Resistance	Frequency 10Hz-55Hz, amplitude 0.35±0.05mm, 20 times each in X, Y and Z direction
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.: ESQC-N1620NC2AD-20)

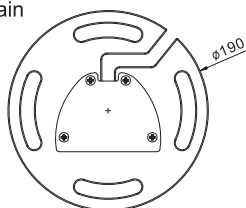
Product Series	Barrier Series	Beams	Beam Space	Output	Sensing Method	Protective Side	Base Option	Sensing Distance
ESQC	- N	16	20	N	C	2	AD	- 20
	N: ESN series	8, 10, 12...	10mm 20mm 40mm	N: NPN*2 P: PNP*2	C: normally close	2: 2 side 3: 3 side 4: 4 side	No mark: normal base AD: adjustable base	5: 0.1~5m 10: 0.1~10m 20: 0.1~20m 30: 0.1~30m

Remark: 1 side protection with 30m sensing distance, 2 side protection with 24m sensing distance, 3 side protection with 16m sensing distance.

Product Size

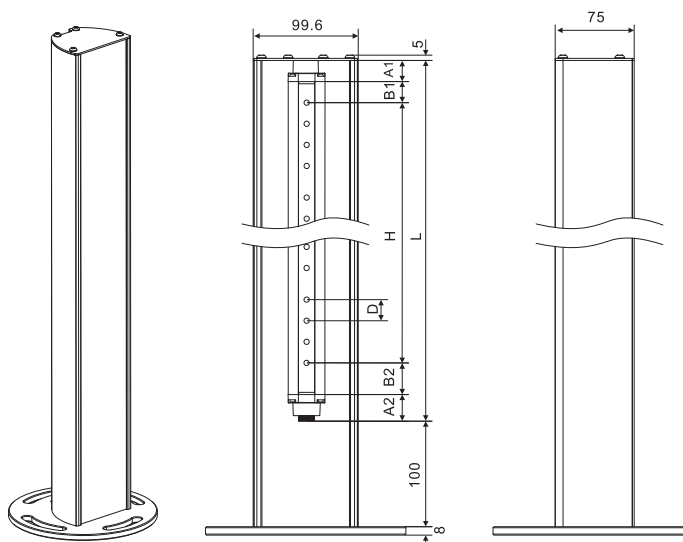
Standard Base

- A1: up cover of curtain
 A2: bottom cover and aviation of curtain
 B1: up blind area
 B2: bottom blind area
 D: beam space of curtain
 H: protective height
 L: total height of curtain



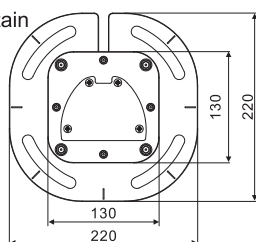
L is total height: $L = A1 + A2 + B1 + B2 + H$
 H is protective height: $H = (\text{beams} - 1) \times \text{beam space}$
 Enclosure height = curtain total height + 100

Total height = enclosure height + 13



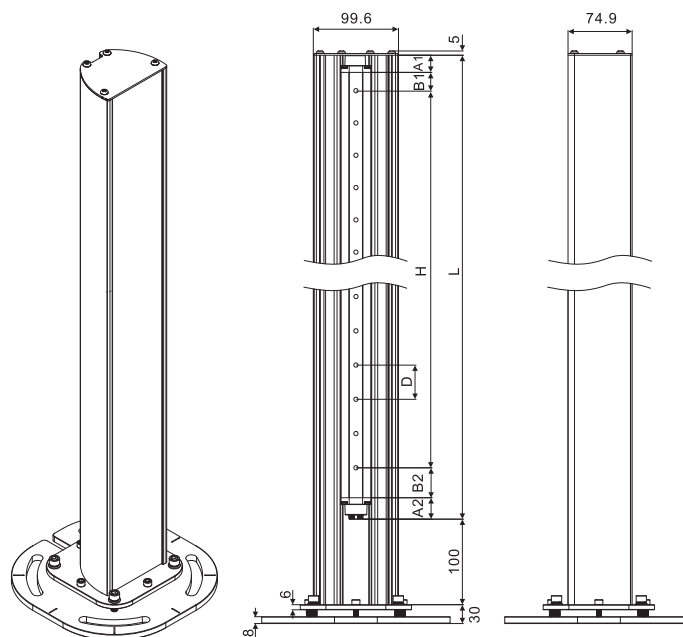
Adjustable Base

- A1: up cover of curtain
 A2: bottom cover and aviation of curtain
 B1: up blind area
 B2: bottom blind area
 D: beam space of curtain
 H: protective height
 L: total height of curtain



L is total height: $L = A1 + A2 + B1 + B2 + H$
 H is protective height: $H = (\text{beams} - 1) \times \text{beam space}$
 Enclosure height = curtain total height + 100

Total height = enclosure height + 35



Safety Light Curtain

ESQC Model Selection Table

- Beam space 10mm, resolution 20mm

Beams	Protection Height	Total Height (standard base)	Total Height (adjustable base)	Model
32	310	503	525	ESQC-N3210
36	350	543	565	ESQC-N3610
40	390	583	605	ESQC-N4010
44	430	623	645	ESQC-N4410
48	470	663	685	ESQC-N4810
52	510	703	725	ESQC-N5210
56	550	743	765	ESQC-N5610
60	590	783	805	ESQC-N6010
64	630	823	845	ESQC-N6410
68	670	863	885	ESQC-N6810
72	710	903	925	ESQC-N7210
76	750	943	965	ESQC-N7610
80	790	983	1005	ESQC-N8010
84	830	1023	1045	ESQC-N8410
88	870	1063	1085	ESQC-N8810
92	910	1103	1125	ESQC-N9210
96	950	1143	1165	ESQC-N9610
100	990	1183	1205	ESQC-N10010
104	1030	1223	1245	ESQC-N10410
108	1070	1263	1285	ESQC-N10810
112	1110	1303	1325	ESQC-N11210
116	1150	1343	1365	ESQC-N11610
120	1190	1383	1405	ESQC-N12010
124	1230	1423	1445	ESQC-N12410
128	1270	1463	1485	ESQC-N12810
132	1310	1503	1525	ESQC-N13210
136	1350	1543	1565	ESQC-N13610
140	1390	1583	1605	ESQC-N14010
144	1430	1623	1645	ESQC-N14410
148	1470	1663	1685	ESQC-N14810
152	1510	1703	1725	ESQC-N15210
.....				
176	1750	1943	1965	ESQC-N17610

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

ESQC Model Selection Table

- Beam space 20mm, resolution 30mm

Beams	Protection Height	Total Height (standard base)	Total Height (adjustable base)	Model
16	300	503	525	ESQC-N1620
18	340	543	565	ESQC-N1820
20	380	583	605	ESQC-N2020
22	420	623	645	ESQC-N2220
24	460	663	685	ESQC-N2420
26	500	703	725	ESQC-N2620
28	540	743	765	ESQC-N2820
30	580	783	805	ESQC-N3020
32	620	823	845	ESQC-N3220
34	660	863	885	ESQC-N3420
36	700	903	925	ESQC-N3620
38	740	943	965	ESQC-N3820
40	780	983	1005	ESQC-N4020
42	820	1023	1045	ESQC-N4220
44	860	1063	1085	ESQC-N4420
46	900	1103	1125	ESQC-N4620
48	940	1143	1165	ESQC-N4820
50	980	1183	1205	ESQC-N5020
52	1020	1223	1245	ESQC-N5220
54	1060	1263	1285	ESQC-N5420
56	1100	1303	1325	ESQC-N5620
58	1140	1343	1365	ESQC-N5820
60	1180	1383	1405	ESQC-N6020
62	1220	1423	1445	ESQC-N6220
64	1260	1463	1485	ESQC-N6420
66	1300	1503	1525	ESQC-N6620
68	1340	1543	1565	ESQC-N6820
70	1380	1583	1605	ESQC-N7020
72	1420	1623	1645	ESQC-N7220
74	1460	1663	1685	ESQC-N7420
76	1500	1703	1725	ESQC-N7620
.....				
88	1740	1943	1965	ESQC-N8820

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

Safety Light Curtain

ESQC Model Selection Table

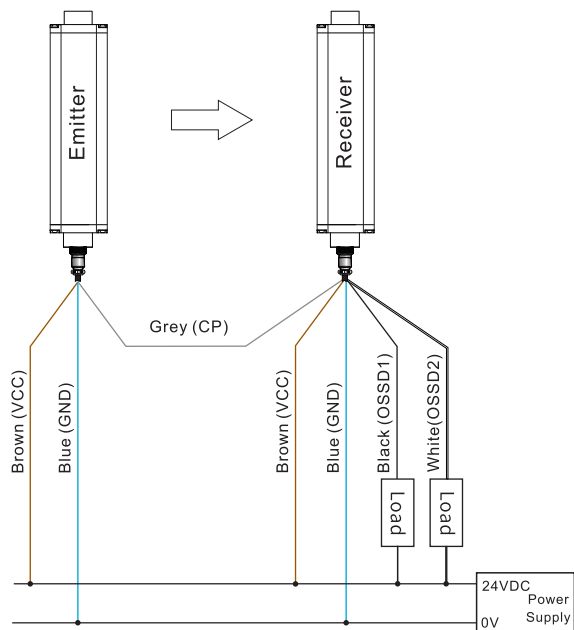
- Beam space 40mm, resolution 50mm

[illegible]

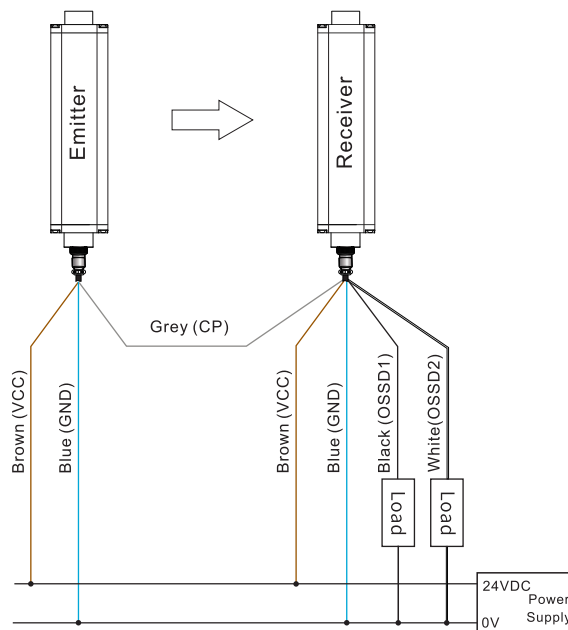
Remark: Beside above models, other light curtains can be customized

Wire Diagram

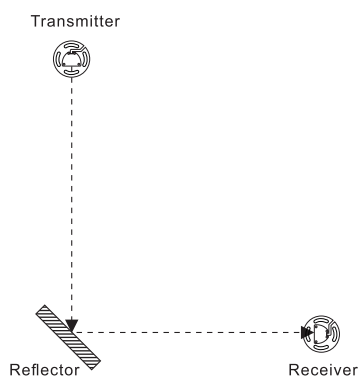
NPN



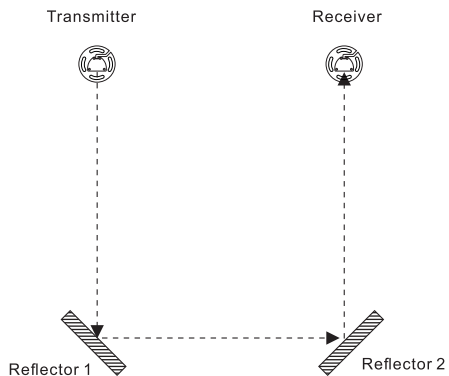
PNP



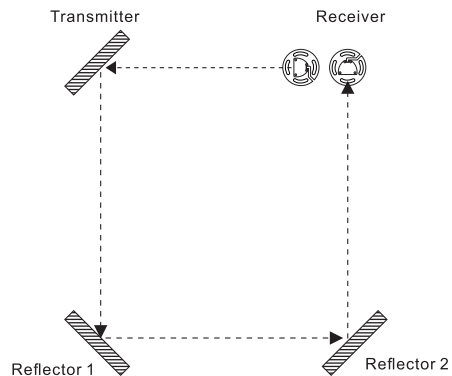
Planar Graph



Double-sided Protection



Three-sided Protection



Four-sided Protection