

EB15 Series Ultra-thin Safety Light Curtain



Product Introduction

EB15 series with special ultra-thin structure, 15mm thickness side emitting infrared light, with easy mounting and wire connection; Quick response time for high performance.

Product Feature

- 15mm ultra-thin light emitting;
- Quick response;
- Lower wide voltage DC10-30V;
- Strong ability against interference of electromagnet of different motor;
- Wire synchronization against light interference;
- Screw fixing mounting ensure easy installation;
- Sectional size 39*15mm.

Product Parameter

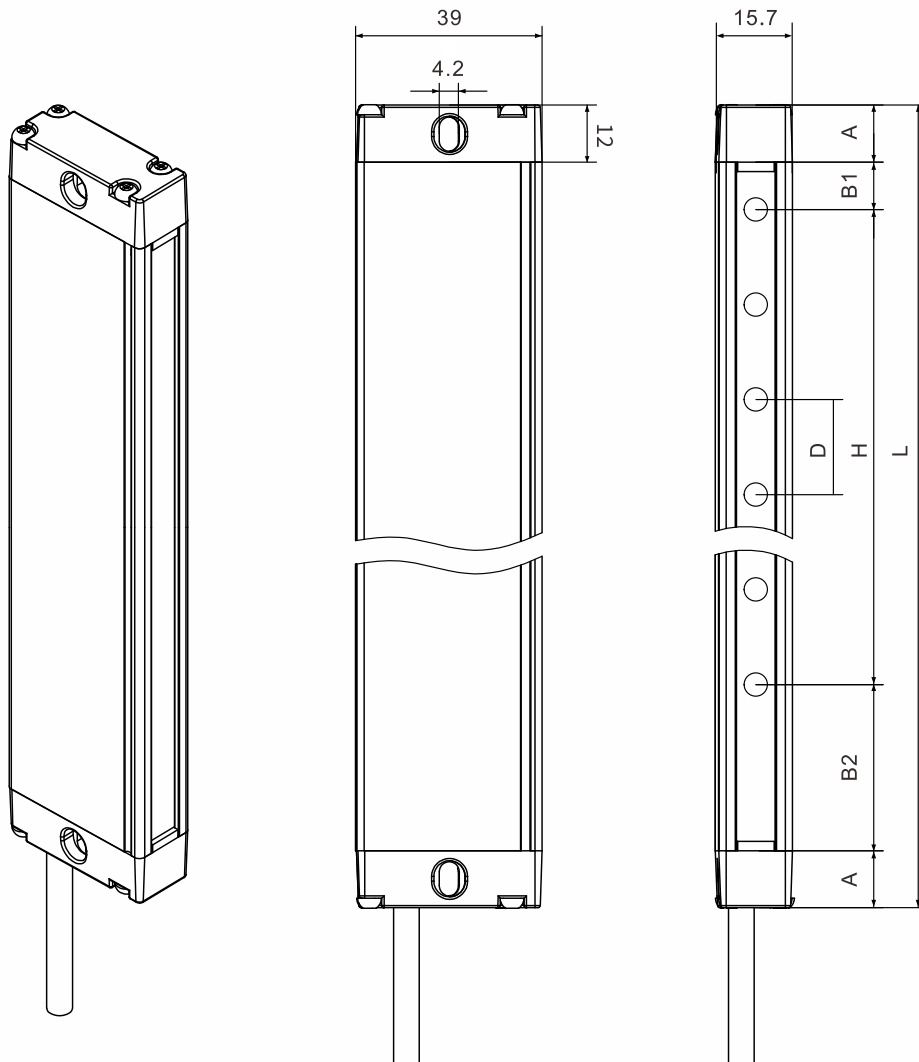
Power Supply	DC10V~30V
Capacity	<5W
Beam Space	10mm, 20mm, 40mm
Resolution	15mm, 25mm, 45mm
Beams	10mm: 8, 12, 16,...160
	20mm: 4, 6, 8,...80
	40mm: 4, 6, 8,...40
Protective Height	Protection height=(N-1)*beam space, N is beams
Light Wavelength	940nm
Response Time	Response Time= (N * 0.1ms) + 0.4ms N is beams
Safety Output (OSSD)	PNP or NPN
	Load current≤500mA (Temperature exceed 40°C≤400 mA), residual voltage≤1V (any voltage drop caused by cable extension is excepted.), voltage leakage≤0.1mA.
Protective Circuit	Overvoltage protection, power supply reverse protection and overcurrent protection.
Sensing Distance	0.1~0.5m, 0.1~2m, 0.1~4m
Against Optical Interference	10000 Lux (angle>2.5°)
Sensing Method	Thru-beam
Synchronization	Wire synchronization
Enclosure Material	Aluminum alloy
Enclosure Protection Rate	IP54
Sectional Size	39*15mm
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.: EB15-1020NCC-2)

Product Series	Beams	Beam Space	Output	Sensing method	Scanning method	Sensing Distance
EB15	10	20	N	C	C	2
	04, 06, 08...	10mm 20mm 40mm	N; NPN P; PNP	C: normally close	Parallel scanning C: Cross scanning	05: 0.1~0.5m 2: 0.1~2m 4: 0.1~4m (Remark: please let us know when with reflectivity)

Safety Light Curtain

Product Size



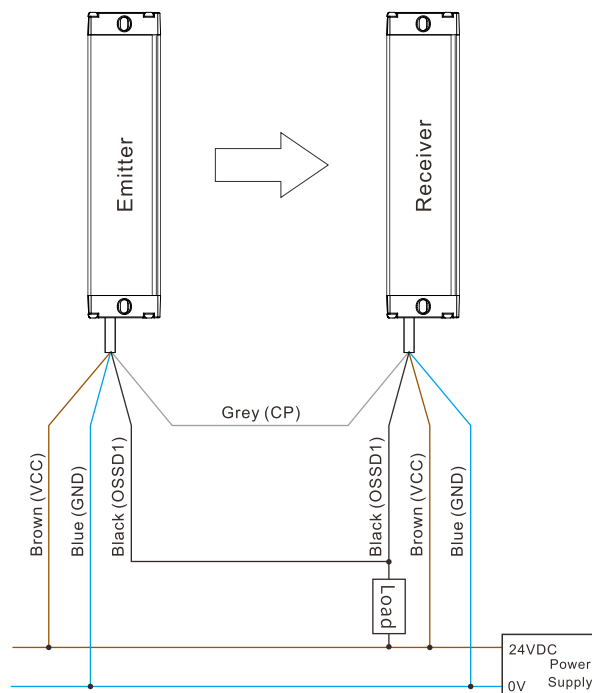
A: Up & bottom cover
 B1: Up blind area
 B2: Bottom blind area
 D: Beam space (10mm/20mm/40mm)
 H: Protection height
 L: Total Height

A is 12mm
 When D=10mm, B1=5mm, B2=5mm
 When D=20mm, B1=5mm, B2=15mm
 When D=40mm, B1=5mm, B2=15mm

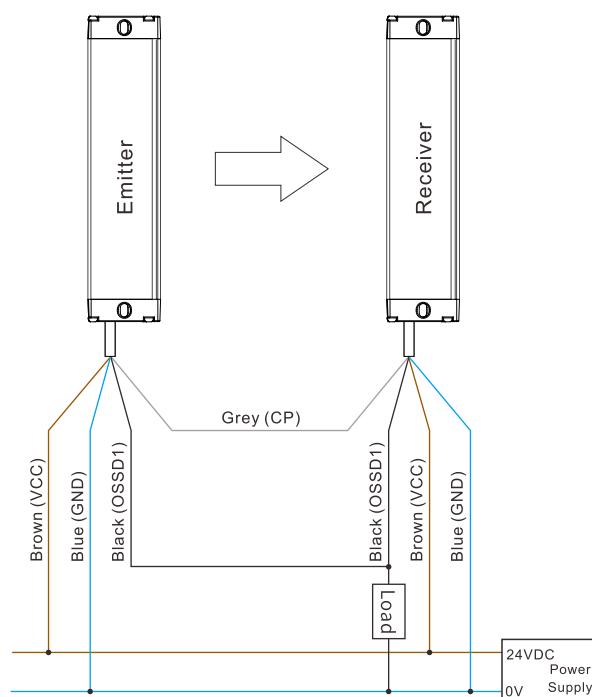
$H = (\text{Beams} - 1) \times \text{beam space}$
 $L = A + B1 + B2 + H$

Wire Diagram

NPN



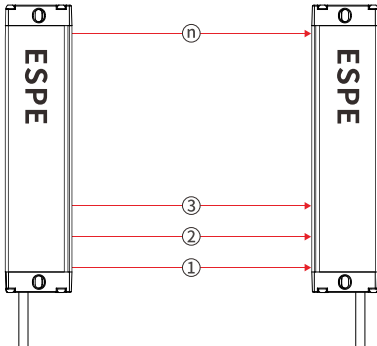
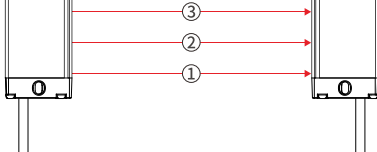
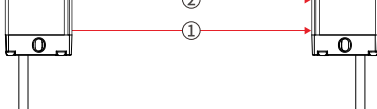
PNP



Safety Light Curtain

EB15 Model Selection Table

- Beam space 10mm, resolution 15mm

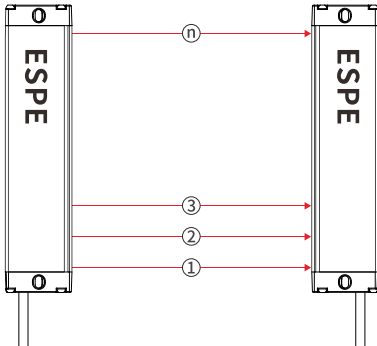
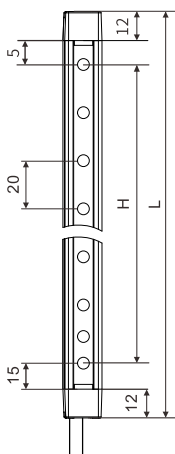
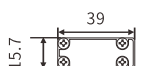
Picture	Beams (n)	Protection Height (mm)	Total Height (mm)	Model
	08	70	104	EB15-0810
	12	110	144	EB15-1210
	16	150	184	EB15-1610
	20	190	224	EB15-2010
	24	230	264	EB15-2410
	28	270	304	EB15-2810
	32	310	344	EB15-3210
	36	350	384	EB15-3610
	40	390	424	EB15-4010
	44	430	464	EB15-4410
	48	470	504	EB15-4810
	52	510	544	EB15-5210
	56	550	584	EB15-5610
	60	590	624	EB15-6010
	64	630	664	EB15-6410
	68	670	704	EB15-6810
	72	710	744	EB15-7210
	76	750	784	EB15-7610
	80	790	824	EB15-8010
	84	830	864	EB15-8410
	88	870	904	EB15-8810
	92	910	944	EB15-9210
	96	950	984	EB15-9610
	100	990	1024	EB15-10010
	104	1030	1064	EB15-10410
	108	1070	1104	EB15-10810
	112	1110	1144	EB15-11210
	116	1150	1184	EB15-11610
	120	1190	1224	EB15-12010
	124	1230	1264	EB15-12410
	128	1270	1304	EB15-12810
				
	160	1590	1624	EB15-16010

H is protection height=(beams-1)*beam space
 L is total height=end covers+ up & bottom
 blind area + protection height

Remark: Besides above model, other curtains can be customized.

EB15 Model Selection Table

- Beam space 20mm, resolution 25mm

Picture	Beams (n)	Protection Height (mm)	Total Height (mm)	Model
	04	60	104	EB15-0420
	06	100	144	EB15-0620
	08	140	184	EB15-0820
	10	180	224	EB15-1020
	12	220	264	EB15-1220
	14	260	304	EB15-1420
	16	300	344	EB15-1620
	18	340	384	EB15-1820
	20	380	424	EB15-2020
Front View	22	420	464	EB15-2220
	24	460	504	EB15-2420
	26	500	544	EB15-2620
Top View	28	540	584	EB15-2820
	30	580	624	EB15-3020
	32	620	664	EB15-3220
	34	660	704	EB15-3420
	36	700	744	EB15-3620
	38	740	784	EB15-3820
	40	780	824	EB15-4020
	42	820	864	EB15-4220
	44	860	904	EB15-4420
	46	900	944	EB15-4620
	48	940	984	EB15-4820
	50	980	1024	EB15-5020
	52	1020	1064	EB15-5220
	54	1060	1104	EB15-5420
	56	1100	1144	EB15-5620
	58	1140	1184	EB15-5820
	60	1180	1224	EB15-6020
	62	1220	1264	EB15-6220
	64	1260	1304	EB15-6420
				
	80	1580	1624	EB15-8020

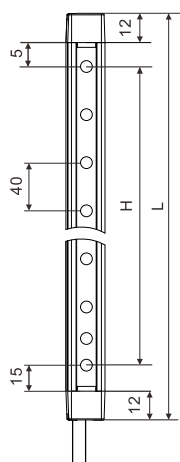
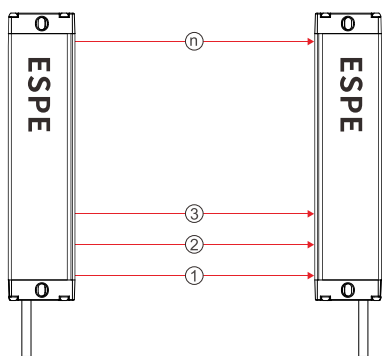
H is protection height=(beams-1)*beam space
 L is total height=end covers+ up & bottom blind area + protection height

Remark: Besides above model, other curtains can be customized.

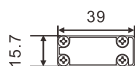
Safety Light Curtain

EB15 Model Selection Table

- Beam space 40mm, resolution 45mm



Front View



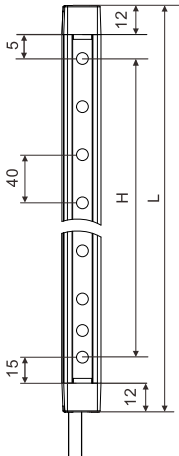
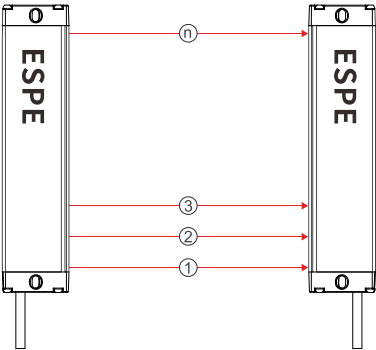
Top View

H is protection height=(beams-1)*beam space

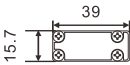
L is total height=end covers+ up & bottom

blind area + protection height

Picture



Front View



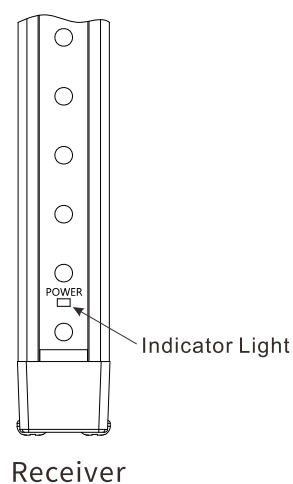
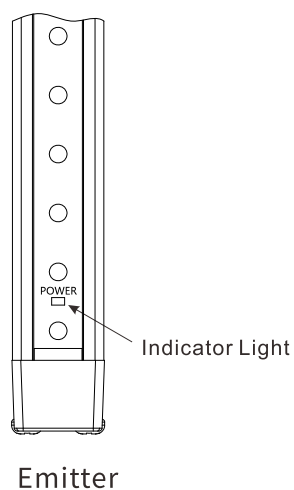
Top View

H is protection height=(beams-1)*beam space
L is total height=end covers+ up & bottom
blind area + protection height

Beams (n)	Protection Height (mm)	Total Height (mm)	Model
04	120	164	EB15-0440
06	200	244	EB15-0640
08	280	324	EB15-0840
10	360	404	EB15-1040
12	440	484	EB15-1240
14	520	564	EB15-1440
16	600	644	EB15-1640
18	680	724	EB15-1840
20	760	804	EB15-2040
22	840	884	EB15-2240
24	920	964	EB15-2440
26	1000	1044	EB15-2640
28	1080	1124	EB15-2840
30	1160	1204	EB15-3040
32	1240	1284	EB15-3240
34	1320	1364	EB15-3440
36	1400	1444	EB15-3640
38	1480	1524	EB15-3840
40	1560	1604	EB15-4040
	</		

Remark: Besides above model, other curtains can be customized.

Indicator Light



Barrier Working State		Emitter Indicator	Receiver Indicator
Normal state	Beam through	Green steady ON	Green steady ON
	Beam block	Green steady ON	Red steady ON
Abnormal state	CP wire connecting error/ CP fault	Red 1Hz blink	Red 2Hz blink
	CP over current	Red 4Hz blink	/
	Overvoltage	Green 4Hz blink	/
	Undervoltage	Green 0.5Hz blink	/

Option of Bracket

Picture	Installation	Accessories
	Screw fixing	M4*20 screw (4pcs)