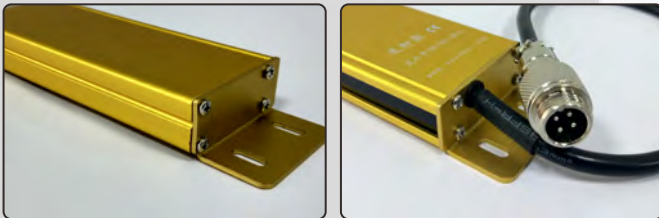


EB15 Series

Compact safety light curtain

EB15 safety light curtain has a unique structure – emitting light surface is 15mm compact size, light is emitted from side. Multiple output signal, easy installation and cable connection. Meanwhile, quick response time to ensure reliable performance.



Product feature

- Ultra-thin photosensitive surface, the size is only 15mm.
- Quick response, the fastest response time < 1ms
- Low wide voltage power supply, the working voltage is DC10 V-30V
- Good performance to resist electromagnetic interference, and resist influence by electromagnetic of various equipment motors.
- Wire synchronization technology to resist light interference effectively.
- Easy to install cause of fixed end-cover.
- The section size is 39*15mm



Technical Parameter

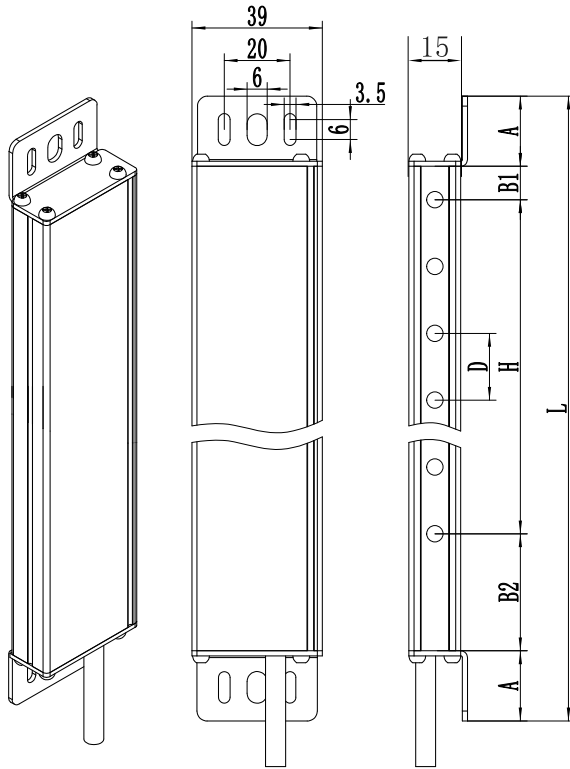
Parameter of safety light curtain	
Power supply	DC10V~30V
Capacity	<5W
Beam space	10mm, 20mm, 40mm
Resolution	15mm, 25mm, 45mm
Beams	10mm: 8, 12, 16……160 20mm: 4, 6, 8……80 40mm: 4, 6, 8……40
Protective height	Protective height= (N-1)* beam space, N is beam quantity
Wave length	940nm
Response time	Response 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, 0.1~4m(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	IP54
Housing cross-section	39*15mm
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%

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- EB15 Series**
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- ESR Series
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- EPM Series
- EPK Series
- EDS-R Series
- EDS-L Series
- EMB-M01
- F27X Series

Explanation of model number (For example: EB15-1020NC-2)

EB15	-	10	20	N	C	C	-	2
▼		▼	▼	▼	▼	▼		▼
Model		Beams	Beam space	Output signal	Output contact	Scanning method		Sensing distance
EB15 series		04,06,08,10,12……	10mm 20mm 40mm	N: NPN P: PNP	C : normally close	Parallel scanning C:cross scanning		0.5: 0.1~0.5M 2: 0.1~2M 4: 0.1~4M

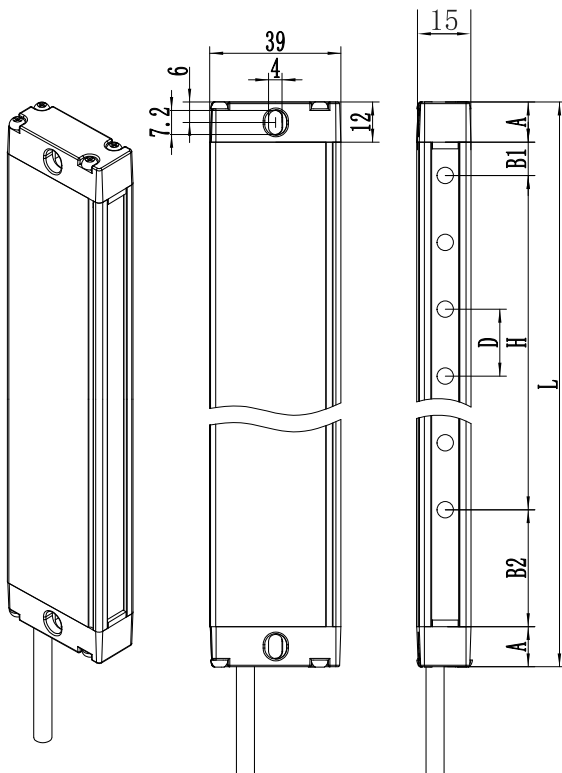
Product size



Metal cover

- A: Upper and bottom cover
- B1: Upper stop-work range
- B2: Bottom stop-work range
- D: Beam space
- H: Protective height
- L: Total height

A=20mm;
 When D=10mm, B1=5mm; B2=25mm
 When D=20mm, B1=5mm; B2=15mm
 When D=40mm, B1=5mm; B2=15mm
 L is total height: $L=A1+A2+B1+B2+H$
 H is protective height: $H=(\text{beams}-1) * \text{beam space}$



Plastic cover

- A: Upper and bottom cover
- B1: Upper stop-work range
- B2: Bottom stop-work range
- D: Beam space
- H: Protective height
- L: Total height

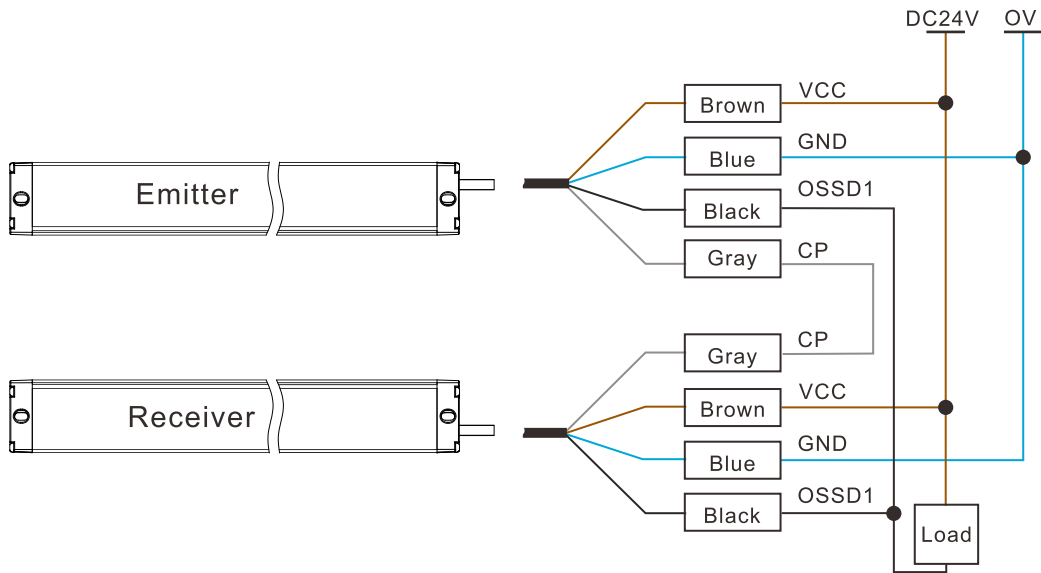
A=12mm;
 When D=10mm, B1=5mm; B2=25mm
 When D=20mm, B1=5mm; B2=15mm
 When D=40mm, B1=5mm; B2=15mm
 L is total height: $L=A1+A2+B1+B2+H$
 H is protective height: $H=(\text{beams}-1) * \text{beam space}$

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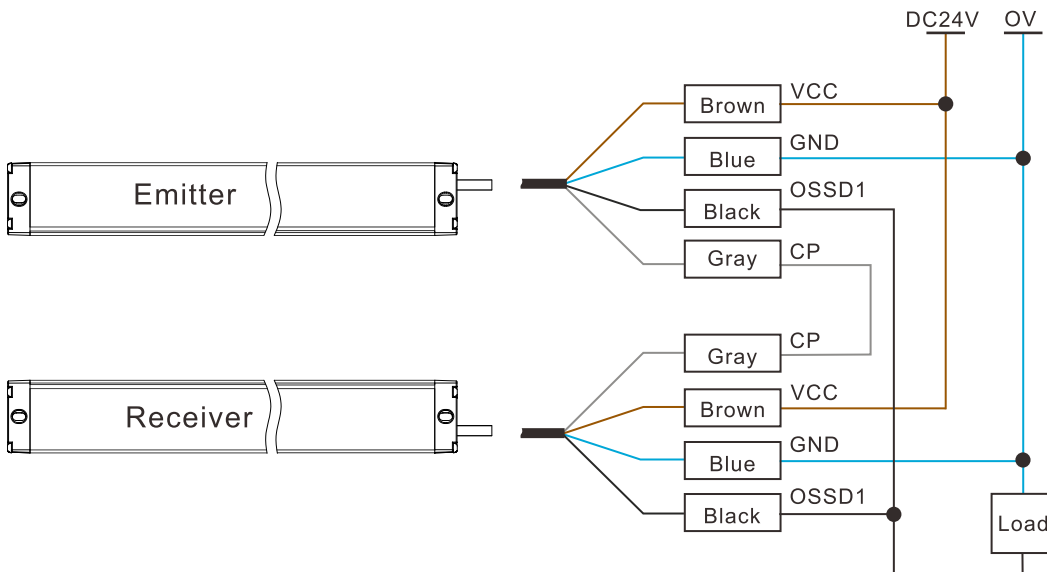
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Wire connection

NPN type

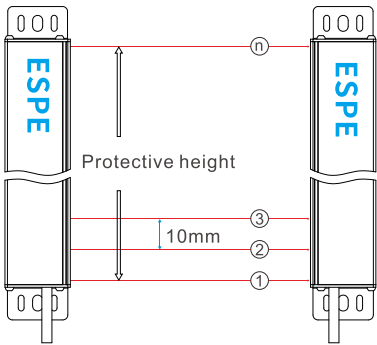
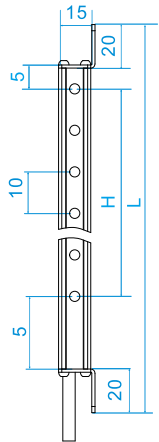
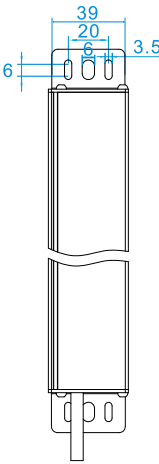


PNP type



EB15 selection sheet

● Beam space 10mm, resolution 15mm

Picture	Beams (n)	Protective height(mm)	Total height (mm)	Model	Size L*W*H(mm)	
	08	70	120	EB15-0810	39*15*120	
	12	110	160	EB15-1210	39*15*160	
	16	150	200	EB15-1610	39*15*200	
	20	190	240	EB15-2010	39*15*240	
	24	230	280	EB15-2410	39*15*280	
	28	270	320	EB15-2810	39*15*320	
	32	310	360	EB15-3210	39*15*360	
	36	350	400	EB15-3610	39*15*400	
	40	390	440	EB15-4010	39*15*440	
	44	430	480	EB15-4410	39*15*480	
	48	470	520	EB15-4810	39*15*520	
	52	510	560	EB15-5210	39*15*560	
	56	550	600	EB15-5610	39*15*600	
	60	590	640	EB15-6010	39*15*640	
	64	630	680	EB15-6410	39*15*680	
	 <p>Front view</p>	68	670	720	EB15-6810	39*15*740
72		710	760	EB15-7210	39*15*780	
76		750	800	EB15-7610	39*15*800	
80		790	840	EB15-8010	39*15*840	
84		830	880	EB15-8410	39*15*880	
88		870	920	EB15-8810	39*15*920	
92		910	960	EB15-9210	39*15*960	
96		950	1000	EB15-9610	39*15*1000	
100		990	1040	EB15-10010	39*15*1040	
104		1030	1080	EB15-10410	39*15*1080	
108		1070	1120	EB15-10810	39*15*1120	
112		1110	1160	EB15-11210	39*15*1160	
116		1150	1200	EB15-11610	39*15*1200	
120		1190	1240	EB15-12010	39*15*1240	
 <p>Top-view</p>		124	1230	1280	EB15-12410	39*15*1280
		128	1270	1320	EB15-12810	39*15*1320
	
	160	1590	1640	EB15-16010	39*15*1640	

H is protective height:

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

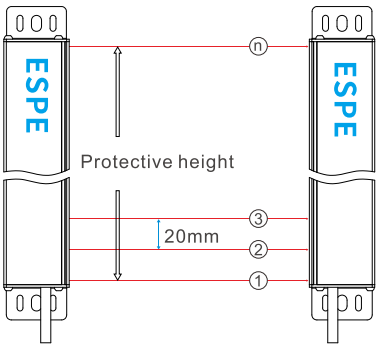
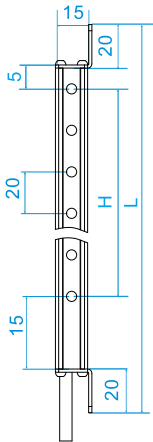
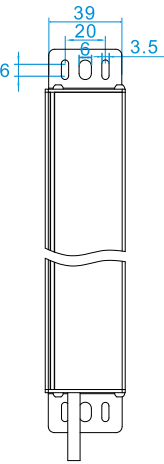
$$L \text{ is total height: } L = A1 + A2 + B1 + B2 + H$$

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

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EB15 selection sheet

● Beam space is 20mm, resolution 25mm

Picture	Beams (n)	Protective height(mm)	Total height (mm)	Model	Size L*W*H(mm)
   <p>Front view</p> <p>Top-view</p>	04	60	120	EB15-0420	39*15*120
	06	100	160	EB15-0620	39*15*160
	08	140	200	EB15-0820	39*15*200
	10	180	240	EB15-1020	39*15*240
	12	220	280	EB15-1220	39*15*280
	14	260	320	EB15-1420	39*15*320
	16	300	360	EB15-1620	39*15*360
	18	340	400	EB15-1820	39*15*400
	20	380	440	EB15-2020	39*15*440
	22	420	480	EB15-2220	39*15*480
	24	460	520	EB15-2420	39*15*520
	26	500	560	EB15-2620	39*15*560
	28	540	600	EB15-2820	39*15*600
	30	580	640	EB15-3020	39*15*640
	32	620	680	EB15-3220	39*15*680
	34	660	720	EB15-3420	39*15*720
	36	700	760	EB15-3620	39*15*760
	38	740	800	EB15-3820	39*15*800
	40	780	840	EB15-4020	39*15*840
	42	820	880	EB15-4220	39*15*880
	44	860	920	EB15-4420	39*15*920
	46	900	960	EB15-4620	39*15*960
	48	940	1000	EB15-4820	39*15*1000
	50	980	1040	EB15-5020	39*15*1040
	52	1020	1080	EB15-5220	39*15*1080
	54	1060	1120	EB15-5420	39*15*1120
	56	1100	1160	EB15-5620	39*15*1160
	58	1140	1200	EB15-5820	39*15*1200
	60	1180	1240	EB15-6020	39*15*1240
	62	1220	1280	EB15-6220	39*15*1280
	64	1260	1320	EB15-6420	39*15*1320

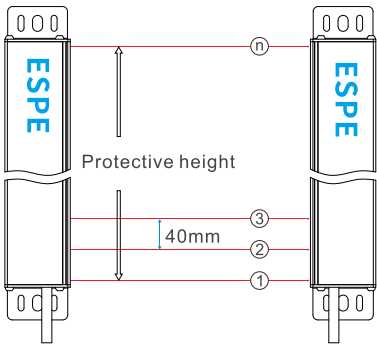
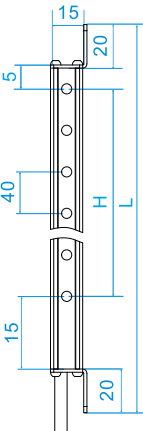
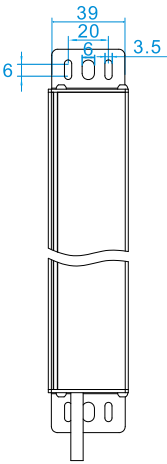
80	1580	1640	EB15-8020	39*15*1640	

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.

EB15 selection sheet

● Beam space is 40mm, resolution 45mm



Picture	Beams (n)	Protective height(mm)	Total height (mm)	Model	Size L*W*H(mm)
   <p>Front view</p> <p>Top-view</p> <p>H is protective height: $H = (\text{Beams} - 1) * \text{beam space}$ L is total height: $L = A1 + A2 + B1 + B2 + H$</p>	04	120	180	EB15-0440	39*15*180
	06	200	260	EB15-0640	39*15*260
	08	280	340	EB15-0840	39*15*340
	10	360	420	EB15-1040	39*15*420
	12	440	500	EB15-1240	39*15*500
	14	520	580	EB15-1440	39*15*580
	16	600	660	EB15-1640	39*15*660
	18	680	740	EB15-1840	39*15*740
	20	760	820	EB15-2040	39*15*820
	22	840	900	EB15-2240	39*15*900
	24	920	980	EB15-2440	39*15*980
	26	1000	1060	EB15-2640	39*15*1060
	28	1080	1140	EB15-2840	39*15*1140
	30	1160	1220	EB15-3040	39*15*1220
	32	1240	1300	EB15-3240	39*15*1300
	34	1320	1380	EB15-3440	39*15*1380
	36	1400	1460	EB15-3640	39*15*1460
	38	1480	1540	EB15-3840	39*15*1540
	40	1560	1620	EB15-4040	39*15*1620

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Installation picture

Picture	Bracket Name	Accessorie
	End cap with hole for mounting	M4*20Screws (4PCS)
	Metal end cap	M3*6 Screws (8PCS)

Application case

