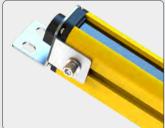
ESP Series

Against strong light safety light curtain

ESP series safety light curtain is specially designed for highlight environment, which can be used outside. Independent MCUS, self-inspection and overcurrent protection; ESPE choose unique lens to ensure 20m longest sensing distance; Transistor output can connect with PLC directly; Special enclosure can be installed with different method.





Product feature

- Great ability to resist strong light inteference, no influence by sunshine
- 20m long protection distance
- Dual output signal and self-inspection method ensure reliable safety protection.
- Strong ability to against electromagnetic inteference from diferent equipments motors.
- Anti-vibration circuit and aluminum alloy enclosure make sure curtains against vibration well.
- Wire synchronizaion technology
- Multiple installtion method is suitable for different machine.



EFP Series
ESE Series
ESN Series
ESQC Series
ELG Series
EB13 Series
EB15 Series
ESA Series

EFB Series
ESCL Series
ESCF Series
ESCH Series
ESCC Series
ESCC Series
ESR Series
EDL-R1 Series
EPL Series
EPL Series

EPC Series
EPM Series
EPK Series

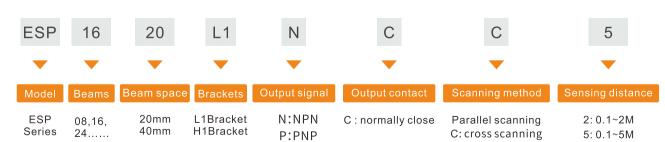
EDS-R Series
EDS-L Series

EMB-M01 F27X Series

Technical Parameter

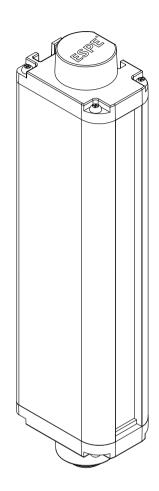
Parameter of safety light curtain			
Power supply	DC10V~30V		
Capacity	<5W		
Beam space	20mm, 40mm		
Resolution	30mm, 50mm		
D. a. a. a. a.	20mmbeam space: 8,16,24·····160		
Beams	40mm beam space: 8,16,24·····80		
Protective height	Protective height=(N-1)*beamgap, N is beam quantity.		
Wave length	940nm		
Response time	Protective height = (N-1)* beam gap		
Type of output (OSSD)	PNP/ NPN semiconductors, current<200mA, residual voltage: 1V max. (Except voltage influenced by lengthen wire).leakage current: 1mA max.		
Protective circuit	Overload voltage protection, power supply reverse polarity protection, over current protection		
Sensing distance	$0.1{\sim}2m,0.1{\sim}5m,0.1{\sim}10m,0.1{\sim}20m$ (If reflective light environment, please let us know in advanced)		
Anti-optical interference	100,000 Lux (angle>5°)		
Sensing method	Through-beam type		
Synchronization	wire synchronization		
Enclosure material	Aluminum alloy		
Enclosure rating	IP65		
Housing cross-section	35*50mm		
Vibration resistance	$10 Hz 55 Hz, double\ amplitude\ each\ in X,\ Y\ and\ Z\ directions\ for\ 20\ times.$		
Ambient operating temperature	-10°C~55°C (with no freezing)		
Storagetemperature	-30°C~70°C (with no freezing)		
Ambient operating humidity	when temperature is 20°C, humidity max 85%		

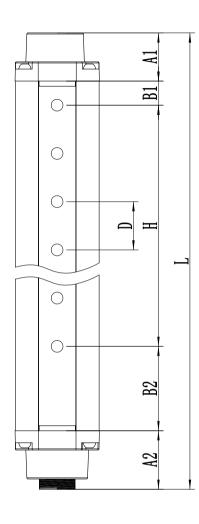
Explanation of model number(For example: ESP1620L1NCC-5)

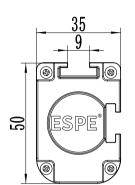


10: 0.1~10M 20: 0.1~20M

Size of product >>







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

A1=20mm; A2=25mm

When D=20mm, B1=10mm; B2=35mm

When D=40mm, B1=10mm; B2=35mm

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

L is total height: L=A1+A2+B1+B2+H

EFP Series
ESE Series

ESN Series

ESQC Series

ELG Series

EB13 Series EB15 Series

ESA Series

20,100,100

LOF Selles

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

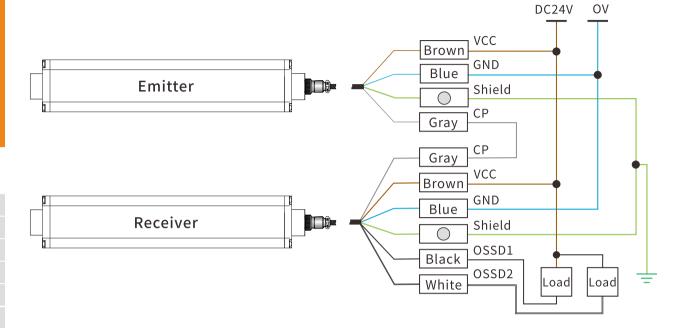
EDS-R Series

EDS-L Series

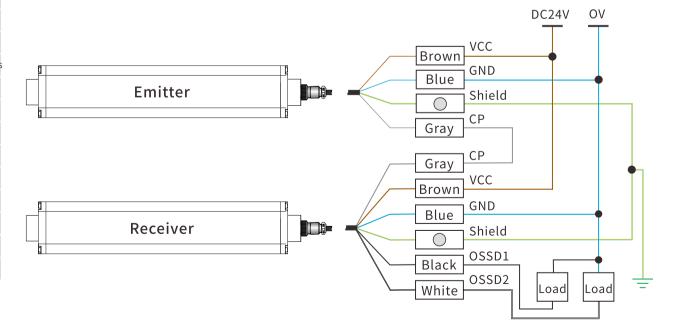
EMB-M01

Wire connection >>

NPN type



PNP type



EFP Series
ESE Series

ESN Series

ESQC Series

ELG Series

EB13 Series EB15 Series

ESA Series

SP 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

EFP Series
ESE Series

ESP selection sheet

• Beam space 20mm, resolution 30mm

Picture	Beams (n)	Protective height (mm)	Total height (mm)	Mode	Size L*W*H(mm)
	08	140	230	ESP0820	35*50*230
	16	300	390	ESP1620	35*50*390
	24	460	550	ESP2420	35*50*550
ESPE SPE	32	620	710	ESP3220	35*50*710
	40	780	870	ESP4020	35*50*870
Protective height	48	940	1030	ESP4820	35*50*1030
20mm 2	56	1100	1190	ESP5620	35*50*1190
1	64	1260	1350	ESP6420	35*50*1350
	72	1420	1510	ESP7220	35*50*1510
	80	1580	1670	ESP8020	35*50*1670
	88	1740	1830	ESP8820	35*50*1830
8	96	1900	1990	ESP9620	35*50*1990
0	104	2060	2150	ESP10420	35*50*2150
	112	2220	2310	ESP11220	35*50*2310
	120	2380	2470	ESP12020	35*50*2470
I -	128	2540	2630	ESP12820	35*50*2630
Tot	136	2700	2790	ESP13620	35*50*2790
	144	2860	2950	ESP14420	35*50*2950
88	152	3020	3110	ESP15220	35*50*3110
58	160	3180	3270	ESP16020	35*50*3270
Front view					
.9.					
ESPE 50					
© 0 35					
					
Top-view					
H is protective height: H=(beams-1)*beam space					
L is total height: L=A1+A2+B1+B2+H					

ESN Series **ESQC** Series ELG Series EB13 Series EB15 Series **ESA 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

EFP Series
ESE Series
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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

ESP selection sheet

• Beam space 40mm, resolution 50mm

Beam space 40mm, resolution 30mm						
Picture	Beams (n)	Protective height (mm)	Total height (mm)	Mode	Size L*W*H(mm)	
	08	280	370	ESP0840	35*50*370	
	12	440	530	ESP1240	35*50*530	
	16	600	690	ESP1640	35*50*690	
ESPE PE	20	760	850	ESP2040	35*50*850	
Protective height	24	920	1010	ESP2440	35*50*1010	
	28	1080	1170	ESP2840	35*50*1170	
40mm 3	32	1240	1330	ESP3240	35*50*1330	
1	36	1400	1490	ESP3640	35*50*1490	
	40	1560	1650	ESP4040	35*50*1650	
	44	1720	1810	ESP4440	35*50*1810	
	48	1880	1970	ESP4840	35*50*1970	
50	52	2040	2130	ESP5240	35*50*2130	
2	56	2200	2290	ESP5640	35*50*2290	
-04	60	2360	2450	ESP6040	35*50*2450	
	64	2520	2610	ESP6440	35*50*2610	
	68	2680	2770	ESP6840	35*50*2770	
Total	72	2840	2930	ESP7240	35*50*2930	
	76	3000	3090	ESP7640	35*50*3090	
35	80	3160	3250	ESP8040	35*50*3250	
52						
Front view						
From view						
9						
ESPE 50						
35						
 						
Top-view						
H is protective height: H=(beams-1)*beam space						
L is total height: L=A1+A2+B1+B2+H						

Option for brackets >>

Picture	Bracket Name	Accessories	Size	ety
	L1 side-mounting bracket	1. L1brackets(4 pcs) 2. Slide block (4pcs) 3. M6 grommet (4 pcs) 4. M6 pad(4 pcs) 5. M6*16 screw(4 pcs) 6. M6*8 screw(4 pcs)	30.00	fety Light Curtain
				EFP Series
				ESN Series
			29.00	ESQC Series
	Shock-absorbing bracket			ELG Series
				EB13 Series
				EB15 Series
				ESA Series
			8,5 17 8 8 8 9,5	ESP Series
		1. Bracket body (4pcs) 2. Slide block (8 pcs)	/20	EFB Series
		3. M6 grommet (8 pcs) 4. M6 pad(8 pcs) 5. M6*16 screw (8 pcs)		ESF Series
			73,75 121	ESCL Series
		6. M6*8 screw (8 pcs)		ESCF Series
4				ESCH Series
01Tu				ESCC Series
w w				ESR Series
				EDL-R1 Series
	H1 upper & bottom mounting	1. H brackets (4pcs) 2. Sliding pot (4pcs) 3. M6 grommet (4pcs) 4. M6 pad (4pcs) 5. M6*16 screw (8pcs) 6. M6*8 screw (4pcs)		EPL Series
20			34.8	EPS Series
- 11			20	EPC Series
			A - 7	EPM Series
			22	EPK Series
			21	EDS-R Series
			2 66	EDS-L Series
			, , , , , , , , , , , , , , , , , , ,	EMB-M01
				F27X Series

Application case















EFP Series

ESE Series

ESN Series

ESQC Series

ELG Series

EB13 Series

EB15 Series

ESA 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