

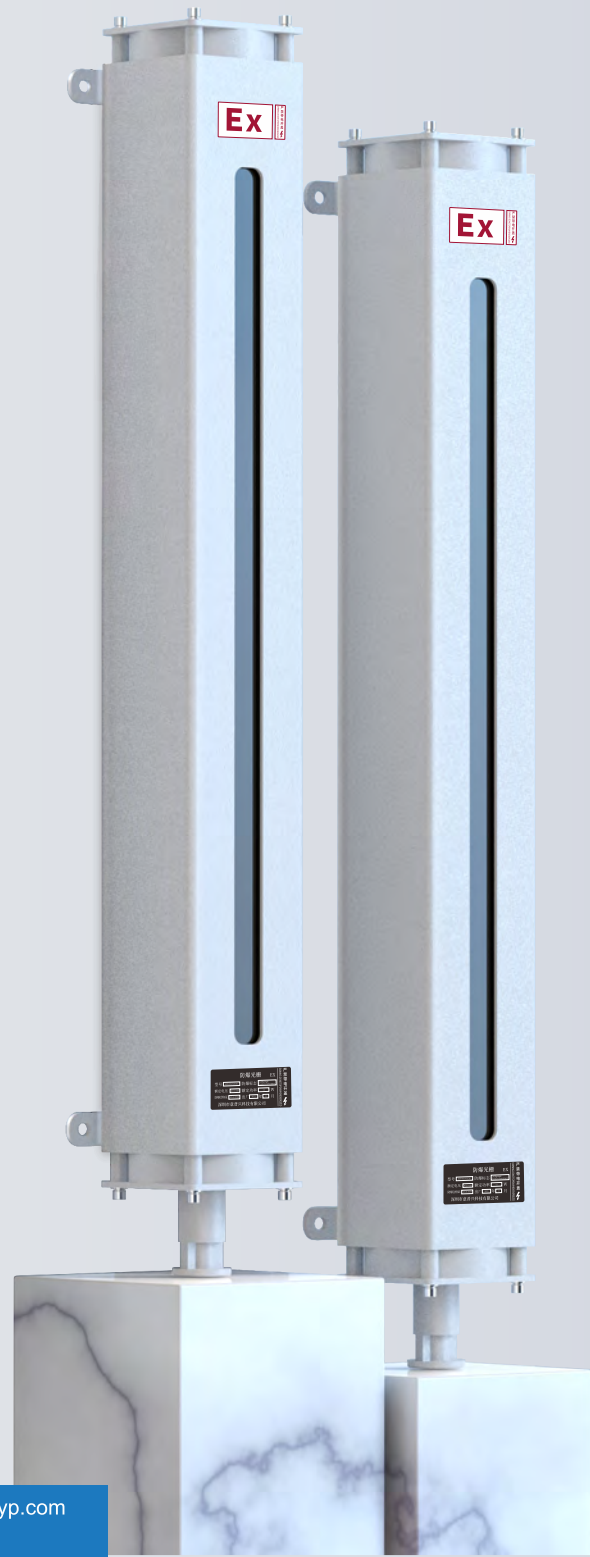
EFB Series

Anti-explosion safety light curtain

EFB series anti-explosion safety light curtain is mainly used for isolating safety light curtain from explosion environment, which is suitable for hazardous explosive gas environment zone 1 and zone 2, IIA/ IIB/ IIC level explosive gas environment, combustible dust environment zone 20, zone 21 and zone 22, temperature group is between T1-T6, petrochemical, offshore drilling platforms, medicine, light industry, textile, wine, paint, coating, food, biological engineering and military etc. factory.

Product feature

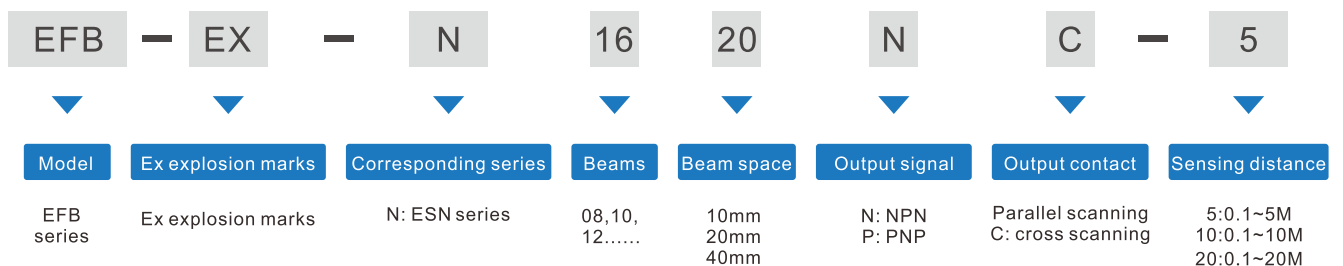
- Long sensing distance up to 30 meters;
- Adopt dual but independent output loop and can do self-inspection, with high reliability;
- Good performance to resist electromagnetic interference, and resist influence by electromagnetic of various equipment motors.
- Wire synchronization technology to ensure good performance to resist optical interference
- External enclosure is made of high quality steel plates or stainless steel which surface is electrostatically sprayed with powder after high-speed shot blasting.
- It can be easily installed on upper end and bottom end.
- Size can be customized according to customer request.
- The wire method can use steel pipe or cable, explosion-proof hose.



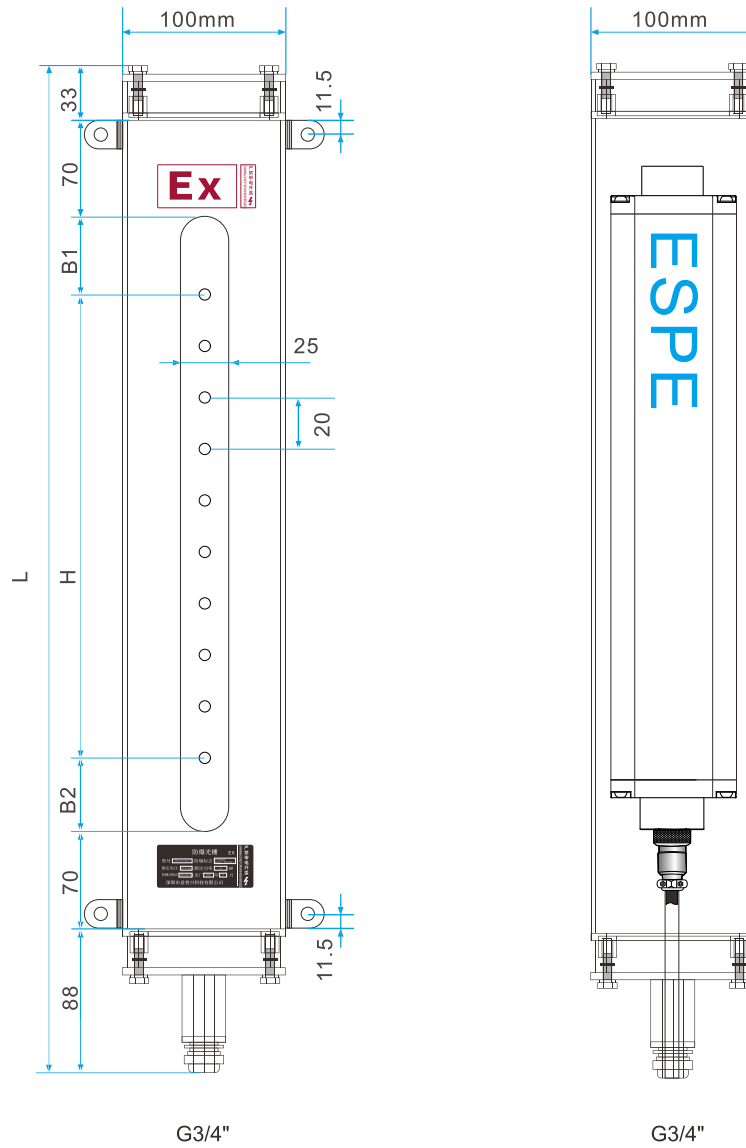
Technical parameter

Parameter of safety light curtain	
Power supply	DC10V~30V
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	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	0.1~5m, 0.1~10m, 0.1~20m (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	IP65
Housing cross-section	35*50mm
Vibration resistance	10Hz...55Hz, double amplitude each in X, Y and Z directions for 20 times.
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 max 85%

Explanation of model number (For example: EFB-EX-N1620NC-5)



Product size



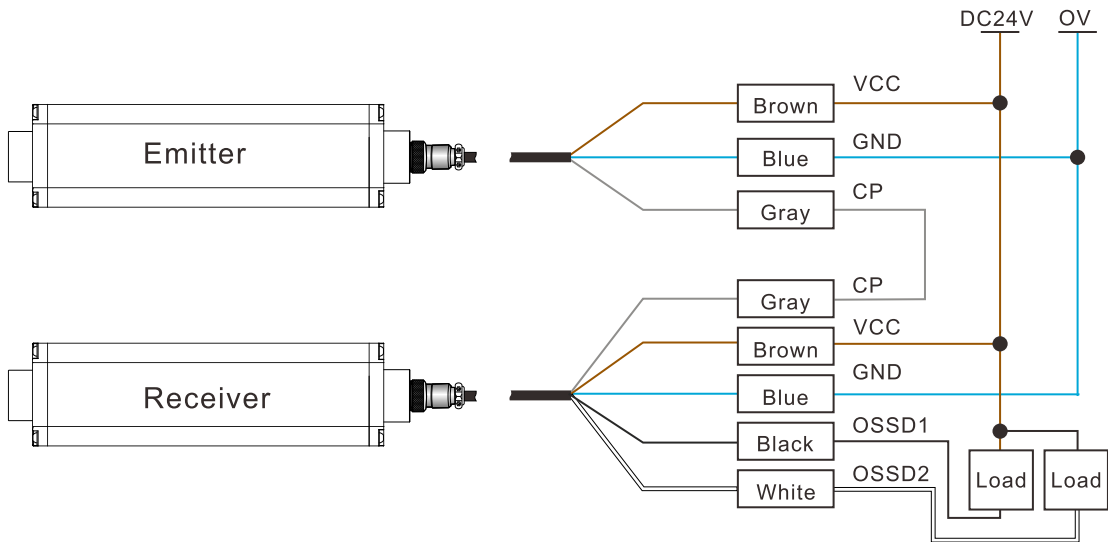
B1: Upper stop-work range for sensing side
 B2: Bottom stop-work range for sensing side
 D: Beam space
 H: Protective height
 L: Total height

When D=10mm, B1=10mm, B2=35mm
 When D=20mm, B1=15mm, B2=40mm
 When D=40mm, B1=15mm, B2=60mm
 H is protective height: $H = (\text{beams} - 1) * \text{beam space}$
 L is total height: $L = A1 + A2 + B1 + B2 + H + 261$

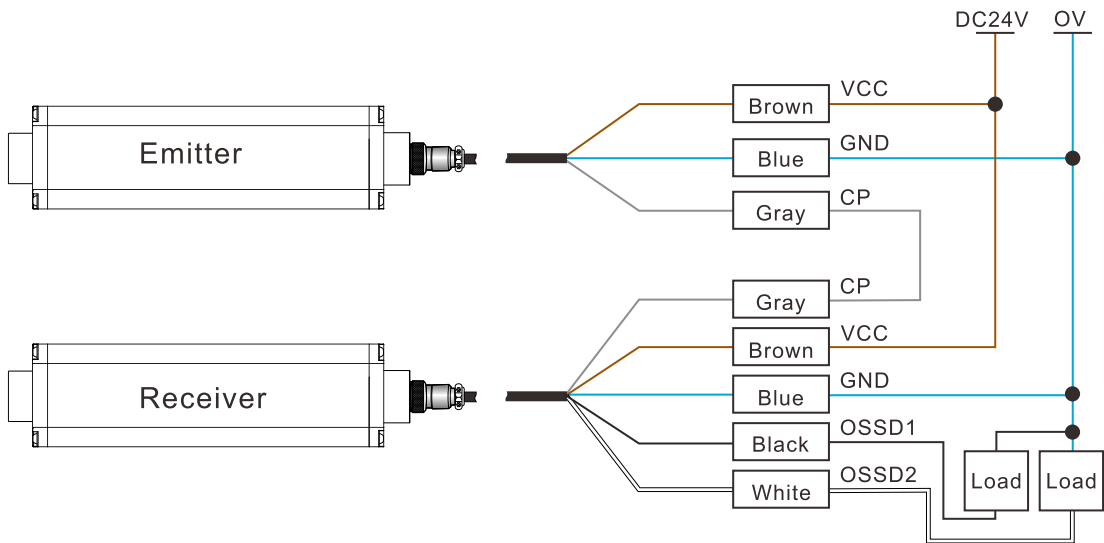
- EFP Series
- ESE Series
- ESN Series
- ESQC Series
- ELG Series
- EB13 Series
- EB15 Series
- ESA Series
- ESP Series
- EFB Series**
- ESF Series
- ESCL Series
- ESCF Series
- ESCH Series
- ESCC Series
- ESR Series
- EDL-R1 Series
- EPL Series
- EPS Series
- EPC Series
- EPM Series
- EPK Series
- EDS-R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

Wire connection

NPN type



PNP type



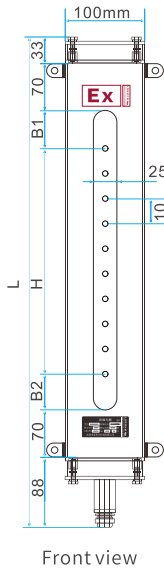
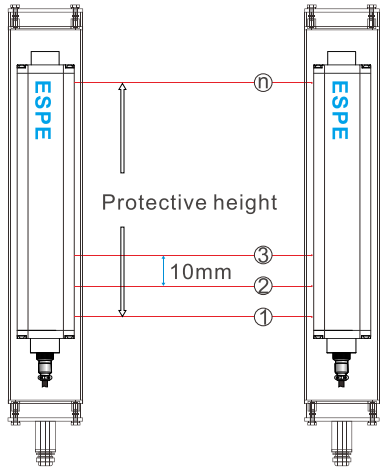
- EFB Series
- EFP Series
- ESE Series
- ESN Series
- ESQC Series
- ELG Series
- EB13 Series
- EB15 Series
- ESA Series
- ESP Series
- EFB Series**
- ESF Series
- ESCL Series
- ESCF Series
- ESCH Series
- ESCC Series
- ESR Series
- EDL-R1 Series
- EPL Series
- EPS Series
- EPC Series
- EPM Series
- EPK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

EFB selection sheet

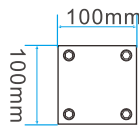
● Beam space is 10mm, resolution 20mm

Picture	Beams	Protective height(mm)	Total height (mm)	Model	Size L*W*H(mm)
	32	310	616	EFB-EX-N3210	100*100*616
	36	350	656	EFB-EX-N3610	100*100*656
	40	390	696	EFB-EX-N4010	100*100*696
	44	430	736	EFB-EX-N4410	100*100*736
	48	470	776	EFB-EX-N4810	100*100*776
	52	510	816	EFB-EX-N5210	100*100*816
	56	550	856	EFB-EX-N5610	100*100*856
	60	590	896	EFB-EX-N6010	100*100*896
	64	630	936	EFB-EX-N6410	100*100*936
	68	670	976	EFB-EX-N6810	100*100*976
	72	710	1016	EFB-EX-N7210	100*100*1016
	76	750	1056	EFB-EX-N7610	100*100*1056
	80	790	1096	EFB-EX-N8010	100*100*1096
	84	830	1136	EFB-EX-N8410	100*100*1136
	88	870	1176	EFB-EX-N8810	100*100*1176
	92	910	1216	EFB-EX-N9210	100*100*1216
	96	950	1256	EFB-EX-N9610	100*100*1256
	100	990	1296	EFB-EX-N10010	100*100*1296
	104	1030	1336	EFB-EX-N10410	100*100*1336
	108	1070	1376	EFB-EX-N10810	100*100*1376
	112	1110	1416	EFB-EX-N11210	100*100*1416
	116	1150	1456	EFB-EX-N11610	100*100*1456
	120	1190	1496	EFB-EX-N12010	100*100*1496
	124	1230	1536	EFB-EX-N12410	100*100*1536
	128	1270	1576	EFB-EX-N12810	100*100*1576
	132	1310	1616	EFB-EX-N13210	100*100*1616
	136	1350	1656	EFB-EX-N13610	100*100*1656
	140	1390	1696	EFB-EX-N14010	100*100*1696
	144	1430	1736	EFB-EX-N14410	100*100*1736
	148	1470	1776	EFB-EX-N14810	100*100*1776
	152	1510	1816	EFB-EX-N15210	100*100*1816

	176	1750	2056	EFB-EX-N17610	100*100*2056



Front view



Top-view

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

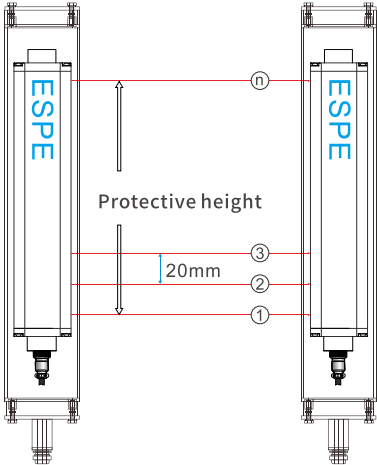

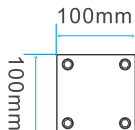
EMB-M01

F27X Series

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

EFB selection sheet

- Beam space is 20mm, resolution 30mm

Picture	Beams	Protective height(mm)	Total height (mm)	Model	Size L*W*H(mm)
	16	300	616	EFB-EX-N1620	100*100*616
	18	340	656	EFB-EX-N1820	100*100*656
	20	380	696	EFB-EX-N2020	100*100*696
	22	420	736	EFB-EX-N2220	100*100*736
	24	460	776	EFB-EX-N2420	100*100*776
	26	500	816	EFB-EX-N2620	100*100*816
	28	540	856	EFB-EX-N2820	100*100*856
	30	580	896	EFB-EX-N3020	100*100*896
	32	620	936	EFB-EX-N3220	100*100*936
	34	660	976	EFB-EX-N3420	100*100*976
 <p>Front view</p>  <p>Top-view</p>	36	700	1016	EFB-EX-N3620	100*100*1016
	38	740	1056	EFB-EX-N3820	100*100*1056
	40	780	1096	EFB-EX-N4020	100*100*1096
	42	820	1136	EFB-EX-N4220	100*100*1136
	44	860	1176	EFB-EX-N4420	100*100*1176
	46	900	1216	EFB-EX-N4620	100*100*1216
	48	940	1256	EFB-EX-N4820	100*100*1256
	50	980	1296	EFB-EX-N5020	100*100*1296
	52	1020	1336	EFB-EX-N5220	100*100*1336
	54	1060	1376	EFB-EX-N5420	100*100*1376
	56	1100	1416	EFB-EX-N5620	100*100*1416
	58	1140	1456	EFB-EX-N5820	100*100*1456
	60	1180	1496	EFB-EX-N6020	100*100*1496
	62	1220	1536	EFB-EX-N6220	100*100*1536
	64	1260	1576	EFB-EX-N6420	100*100*1576
	66	1300	1616	EFB-EX-N6620	100*100*1616
	68	1340	1656	EFB-EX-N6820	100*100*1656
	70	1380	1696	EFB-EX-N7020	100*100*1696
	72	1420	1736	EFB-EX-N7220	100*100*1736
	74	1460	1776	EFB-EX-N7420	100*100*1776
	76	1500	1816	EFB-EX-N7620	100*100*1816

	88	1740	2056	EFB-EX-N8820	100*100*2056

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

- 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

EFB selection sheet

• Beam space is 40mm, resolution 50mm

Picture	Beams	Protective height(mm)	Total height (mm)	Model	Size L*W*H(mm)	
	08	280	616	EFB-EX-N0840	100*100*616	
	10	360	696	EFB-EX-N1040	100*100*696	
	12	440	776	EFB-EX-N1240	100*100*776	
	14	520	856	EFB-EX-N1440	100*100*856	
	16	600	936	EFB-EX-N1640	100*100*936	
	18	680	1016	EFB-EX-N1840	100*100*1016	
	20	760	1096	EFB-EX-N2040	100*100*1096	
	22	840	1176	EFB-EX-N2240	100*100*1176	
	24	920	1256	EFB-EX-N2440	100*100*1256	
	26	1000	1336	EFB-EX-N2640	100*100*1336	
	28	1080	1416	EFB-EX-N2840	100*100*1416	
	30	1160	1496	EFB-EX-N3040	100*100*1496	
	32	1240	1576	EFB-EX-N3240	100*100*1576	
	34	1320	1656	EFB-EX-N3440	100*100*1656	
	36	1400	1736	EFB-EX-N3640	100*100*1736	
	38	1480	1816	EFB-EX-N3840	100*100*1816	
	40	1560	1896	EFB-EX-N4040	100*100*1896	
	42	1640	1976	EFB-EX-N4240	100*100*1976	
	44	1720	2056	EFB-EX-N4440	100*100*2056	

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

- 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

Application case



Wide range
of applications



Mainly used to isolate the grating for explosion-proof, suitable for explosive gas environment Zone 1, Zone 2 hazardous places, IIA, IIB, IIC class explosive gas environment, combustible dust environment Zone 20, Zone 21, Zone 22 environment, temperature group T1 a T6 environment, petrochemical, offshore drilling platform, metallurgy, medicine, light industry, textile, brewing, paint, coating, food, biological engineering and military facilities and other factories. Translated with www.DeepL.com/Translator (free version)

- 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