

Взрывозащищенные световые завесы безопасности EFB

Технические характеристики

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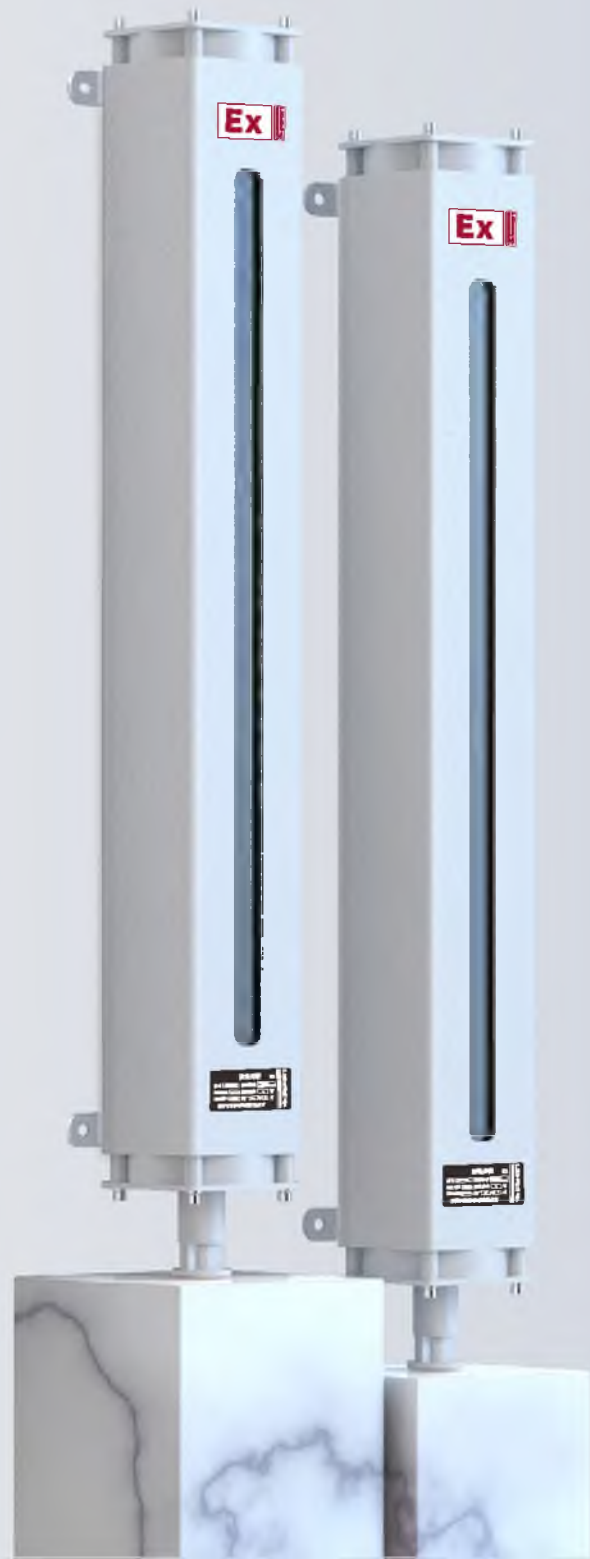
EFB Series

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.

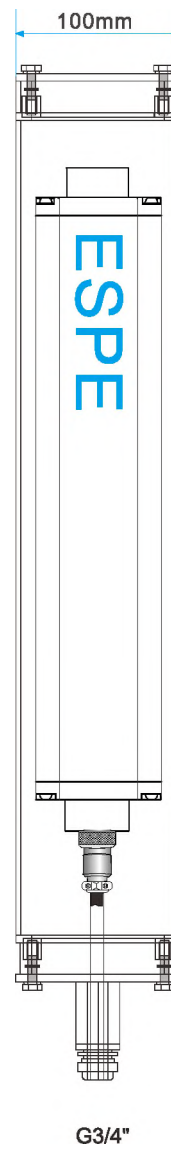
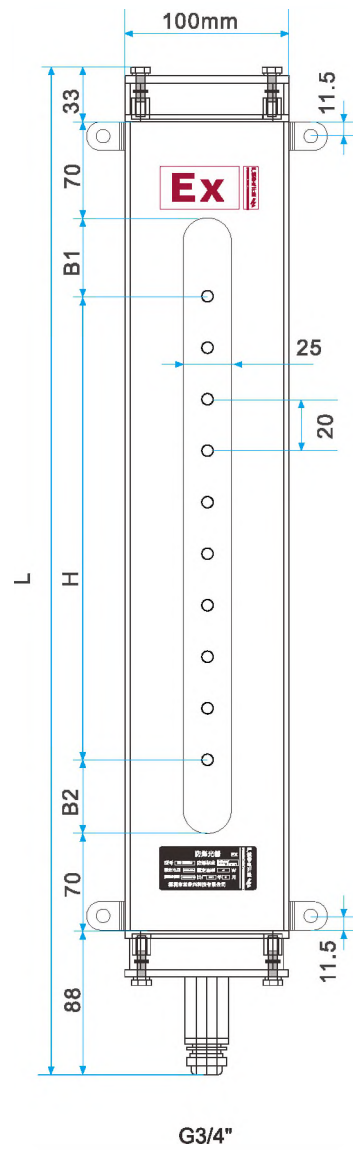


Technical parameter

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)

EFB	—	EX	—	N	16	20	N	C	—	5
▼		▼		▼	▼	▼	▼	▼		▼
Model	Ex explosion marks	Corresponding series	Beams	Beam space	Output signal	Output contact	Sensing distance			
EFB series	Ex explosion marks	N: ESN series	08, 10, 12.....	10mm 20mm 40mm	N: NPN P: PNP	Parallel scanning C: cross scanning	5: 0.1~5M 10: 0.1~10M 20: 0.1~20M			

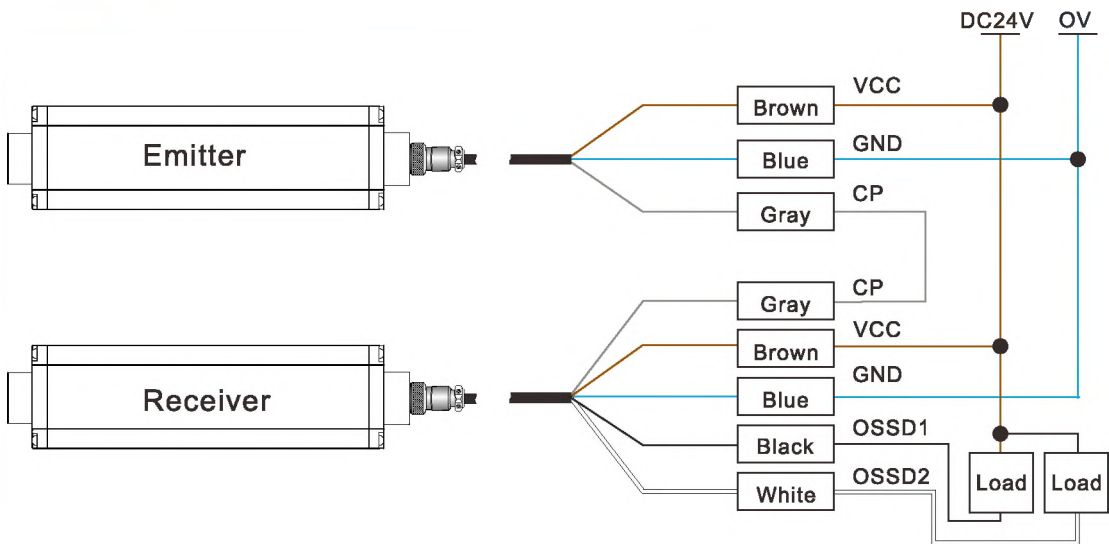


B1: Upper stop-work range for sensing side
 B2: Bottom stop-work range for sensing side
 D: Beam space
 H: Protective height
 L: Total height

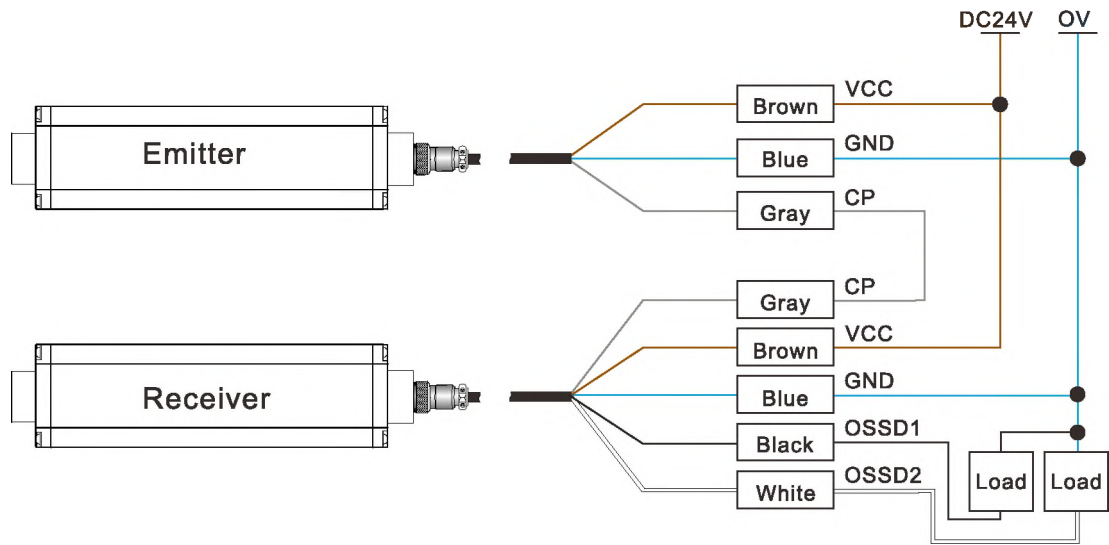
When D=10mm, B1=10mm, B2=35mm
 When D=20mm, B1=15mm, B2=40mm
 When D=40mm, B1=15mm, B2=60mm
 H is protective height: $H = (\text{beams} - 1) \times \text{beam space}$
 L is total height: $L = A1 + A2 + B1 + B2 + H + 261$

Wire connection

NPN type



PNP type

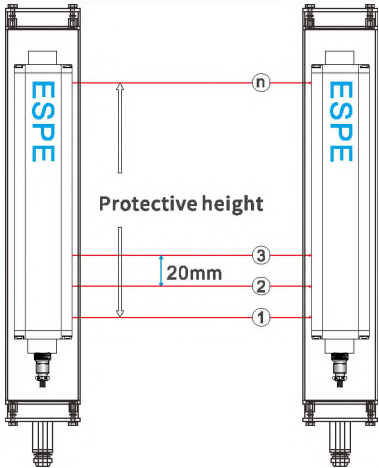
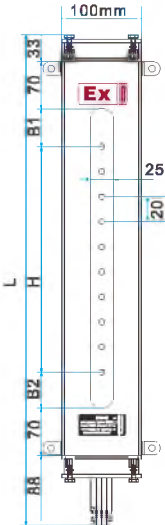
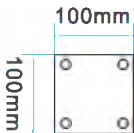


Safety Light Curtain

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
	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
 Front view	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
 Top-view	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 selection sheet

- Beam space is 40mm, resolution 50mm

Picture	Beams	Protective height(mm)	Total height (mm)	Model	Size L*W*H(mm)
Front view Top-view	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

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