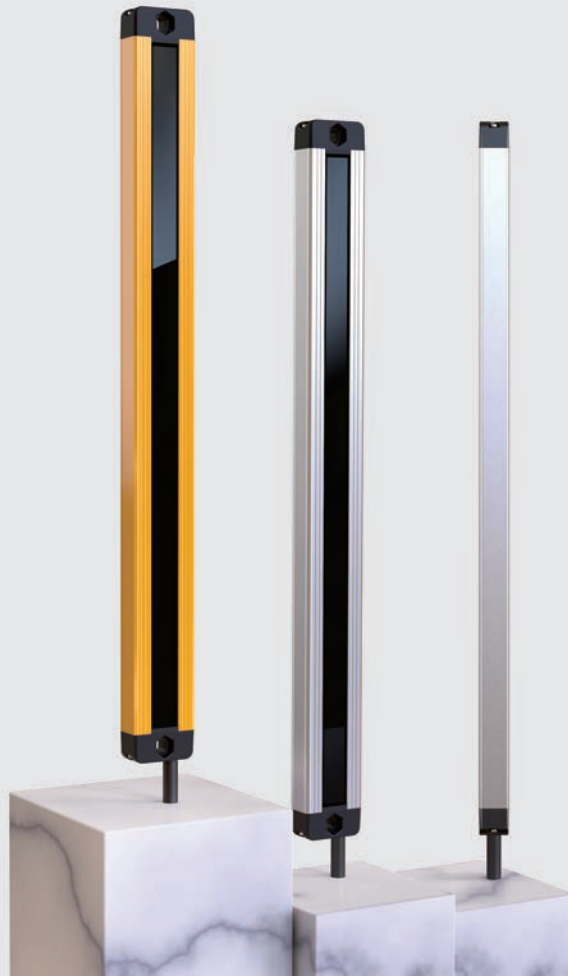


EB13 Series

Ultra-compact Safety Light Curtain



Product Introduction

EB13 series is 28*13mm compact size for easy installation. Light is emitted from 28mm side, easy to align. Good ability to against interference of infrared light and electromagnet.

Product Feature

- 28*13mm compact size;
- Quick response time;
- DC10V-30V voltage range;
- Good ability to against interference of electromagnet of different motor;
- Wire synchronization for anti-light interference;
- Easy installation.

Safety Light Curtain

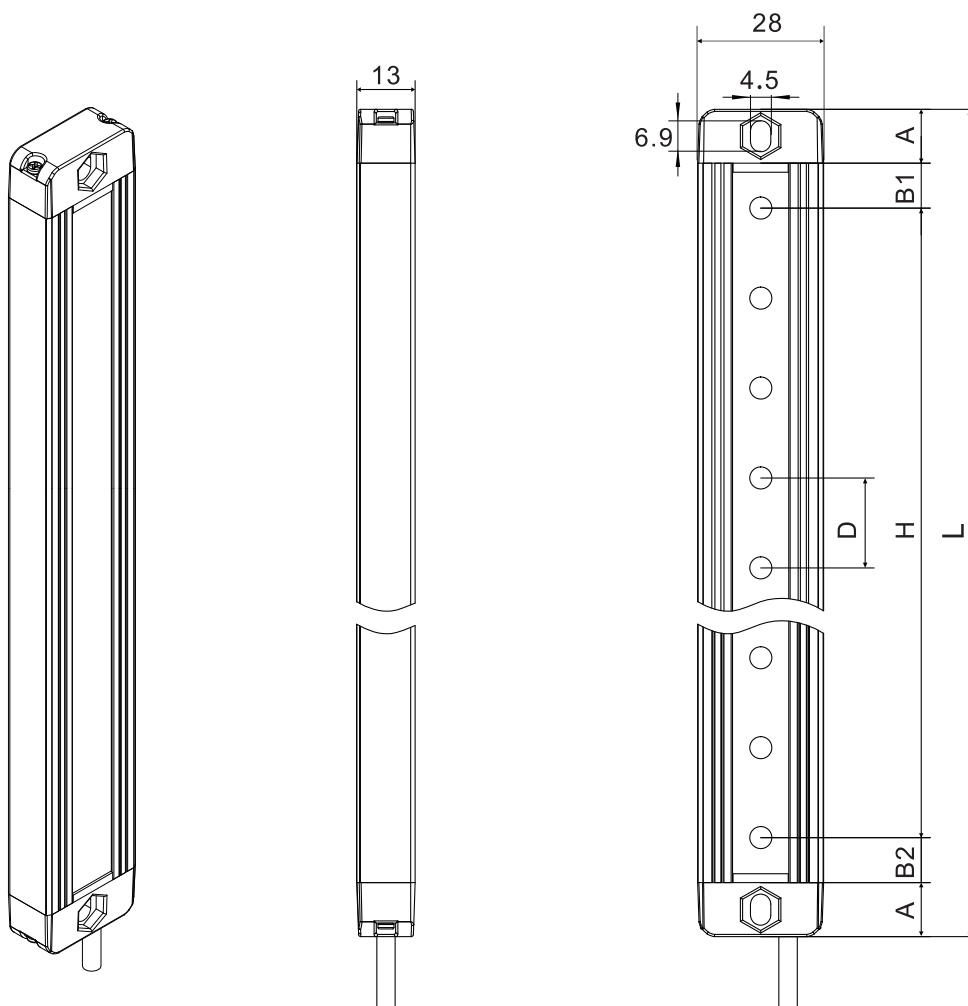
Product Parameter

Power Supply	DC10V~30V
Capacity	<5W
Beam Space	10mm, 20mm, 40mm
Resolution	15mm, 25mm, 45mm
Beams	10mm: 8, 12, 16,...128
	20mm: 4, 6, 8,...64
	40mm: 4, 6, 8,...32
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 ≤ 200mA, residual voltage ≤ 1V (except for voltage drop caused by cable extension) and leakage current ≤ 1mA.
Protective Circuit	Overvoltage protection, power supply reverse protection and overcurrent protection.
Sensing Distance	0.1~0.5m, 0.1~1m, 0.1~2.5m (Remark; If any light reflecting, please let us know)
Against Optical Interference	10000 Lux (angle>5°)
Sensing Method	Thru-beam
Synchronization	Wire synchronization
Enclosure Material	Aluminum alloy
Enclosure Protection Rate	IP54
Sectional Size	28*13mm
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.: EB13-1020NCSC-2)

Product Series	Beams	Beam Space	Output	Sensing method	Color	Scanning method	Sensing Distance
EB13	10	20	N	C	S	C	2
	04, 06, 08...	10mm 20mm 40mm	N: NPN P: PNP	C: normally close	S: silver Y: yellow	Parallel scanning C: cross scanning	05: 0.1~0.5m 2: 0.1~2m 025: 0.1~2.5m (Remark: please let us know when with reflectivity)

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=10mm, B2=10mm.

When D=40mm, B1=10mm, B2=30mm.

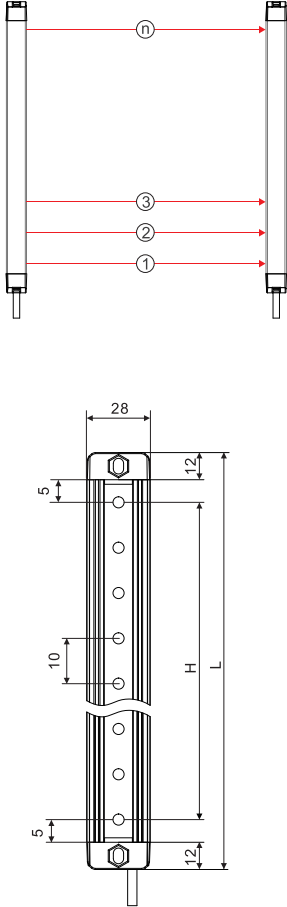
$H = (\text{Beams} - 1) \times \text{beam space}$

$L = A + B1 + B2 + H$

Safety Light Curtain

EB13 Model Selection Table

- Beam space 10mm, resolution 15mm

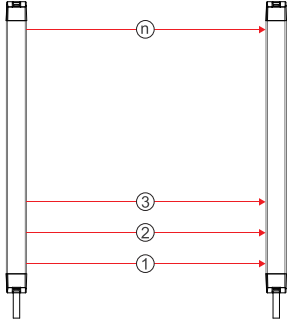
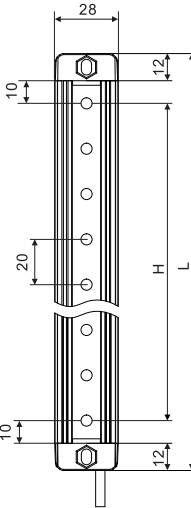
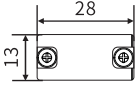
Picture	Beams (n)	Protection Height (mm)	Total Height (mm)	Model
 Front View Top View	08	70	104	EB13-0810
	12	110	144	EB13-1210
	16	150	184	EB13-1610
	20	190	224	EB13-2010
	24	230	264	EB13-2410
	28	270	304	EB13-2810
	32	310	344	EB13-3210
	36	350	384	EB13-3610
	40	390	424	EB13-4010
	44	430	464	EB13-4410
	48	470	504	EB13-4810
	52	510	544	EB13-5210
	56	550	584	EB13-5610
	60	590	624	EB13-6010
	64	630	664	EB13-6410
	68	670	704	EB13-6810
	72	710	744	EB13-7210
	76	750	784	EB13-7610
	80	790	824	EB13-8010
	84	830	864	EB13-8410
	88	870	904	EB13-8810
	92	910	944	EB13-9210
	96	950	984	EB13-9610
	100	990	1024	EB13-10010
	104	1030	1064	EB13-10410
	108	1070	1104	EB13-10810
	112	1110	1144	EB13-11210
	116	1150	1184	EB13-11610
	120	1190	1224	EB13-12010
	124	1230	1264	EB13-12410
	128	1270	1304	EB13-12810

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.

EB13 Model Selection Table

- Beam space 20mm, resolution 25mm

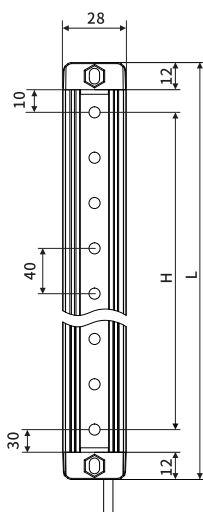
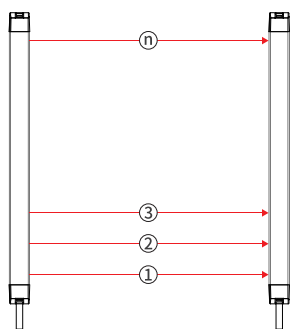
Picture	Beams (n)	Protection Height (mm)	Total Height (mm)	Model
  Front View  Top View	04	60	104	EB13-0420
	06	100	144	EB13-0620
	08	140	184	EB13-0820
	10	180	224	EB13-1020
	12	220	264	EB13-1220
	14	260	304	EB13-1420
	16	300	344	EB13-1620
	18	340	384	EB13-1820
	20	380	424	EB13-2020
	22	420	464	EB13-2220
	24	460	504	EB13-2420
	26	500	544	EB13-2620
	28	540	584	EB13-2820
	30	580	624	EB13-3020
	32	620	664	EB13-3220
	34	660	704	EB13-3420
	36	700	744	EB13-3620
	38	740	784	EB13-3820
	40	780	824	EB13-4020
	42	820	864	EB13-4220
	44	860	904	EB13-4420
	46	900	944	EB13-4620
	48	940	984	EB13-4820
	50	980	1024	EB13-5020
	52	1020	1064	EB13-5220
	54	1060	1104	EB13-5420
	56	1100	1144	EB13-5620
	58	1140	1184	EB13-5820
	60	1180	1224	EB13-6020
	62	1220	1264	EB13-6220
	64	1260	1304	EB13-6420
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.

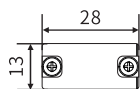


EB13 Model Selection Table

- 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

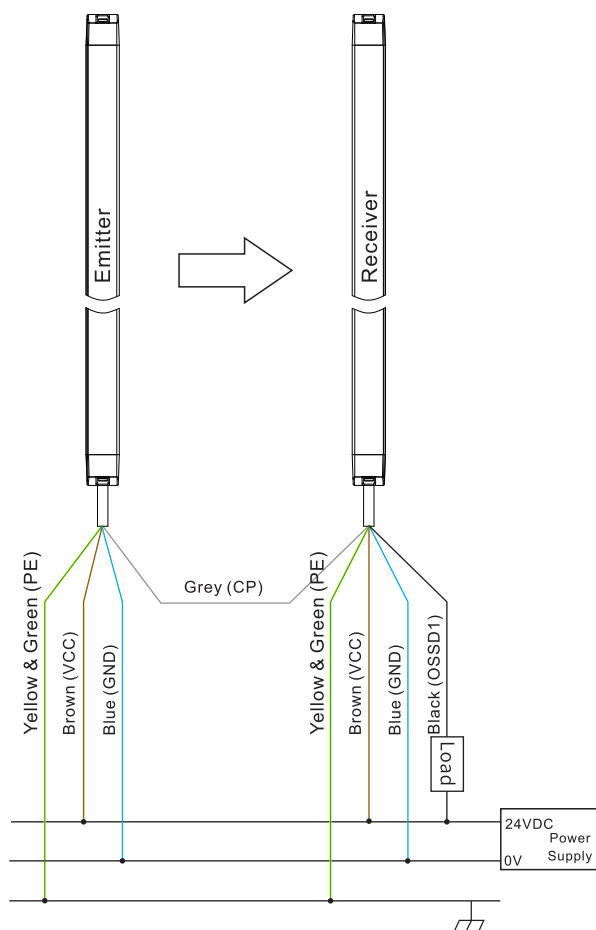
blind area + protection height

[illegible]

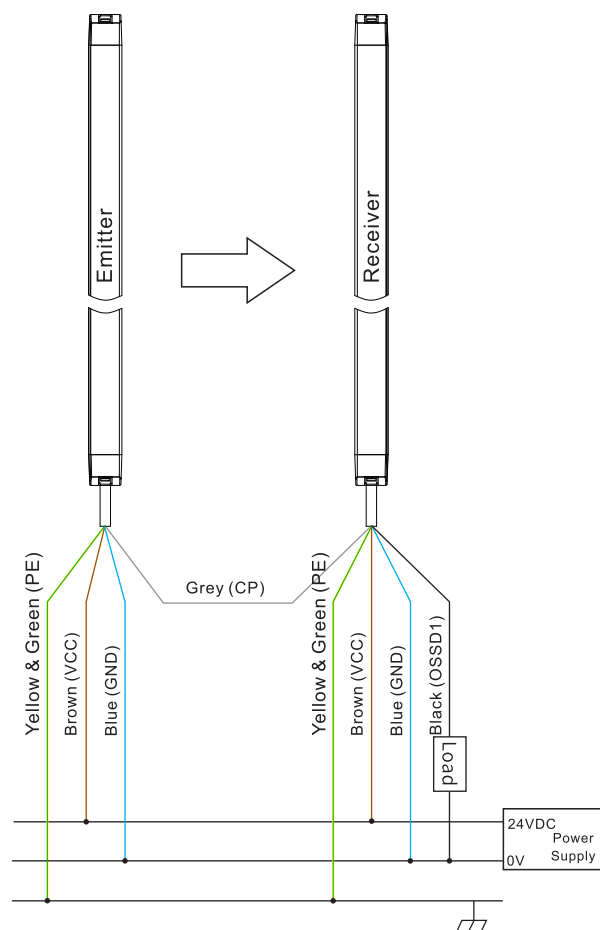
Remark: Besides above model, other curtains can be customized.

Wire Diagram

NPN



PNP



Indicator

State	Receiver LED	Emitter LED
Beam through	Green ON	Green ON
Beam blocked	Red ON	Green ON
CP failure	Red green 1Hz blink	Green 1Hz blink
CP overcurrent	Red 2Hz blink	Green ON
Internal error	Green 1Hz blink	Green 2Hz blink

Safety Light Curtain

Option of Bracket

Picture	Installation	Accessories
	End screw fixing	Round M4*16 screw (4pcs)

Application



Widely Applying

On automation machine,
AOI testing machine,
small size machine

