

# Компактные световые завесы безопасности ЕВ15

## Технические характеристики

По вопросам продаж и поддержки обращайтесь:

Алматы (727)345-47-04  
Ангарск (3955)60-70-56  
Архангельск (8182)63-90-72  
Астрахань (8512)99-46-04  
Барнаул (3852)73-04-60  
Белгород (4722)40-23-64  
Благовещенск (4162)22-76-07  
Брянск (4832)59-03-52  
Владивосток (423)249-28-31  
Владикавказ (8672)28-90-48  
Владимир (4922)49-43-18  
Волгоград (844)278-03-48  
Вологда (8172)26-41-59  
Воронеж (473)204-51-73  
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06  
Ижевск (3412)26-03-58  
Иркутск (395)279-98-46  
Казань (843)206-01-48  
Калининград (4012)72-03-81  
Калуга (4842)92-23-67  
Кемерово (3842)65-04-62  
Киров (8332)68-02-04  
Коломна (4966)23-41-49  
Кострома (4942)77-07-48  
Краснодар (861)203-40-90  
Красноярск (391)204-63-61  
Курск (4712)77-13-04  
Курган (3522)50-90-47  
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13  
Москва (495)268-04-70  
Мурманск (8152)59-64-93  
Набережные Челны (8552)20-53-41  
Нижний Новгород (831)429-08-12  
Новокузнецк (3843)20-46-81  
Ноябрьск (3496)41-32-12  
Новосибирск (383)227-86-73  
Омск (3812)21-46-40  
Орел (4862)44-53-42  
Оренбург (3532)37-68-04  
Пенза (8412)22-31-16  
Петрозаводск (8142)55-98-37  
Псков (8112)59-10-37  
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15  
Рязань (4912)46-61-64  
Самара (846)206-03-16  
Санкт-Петербург (812)309-46-40  
Саратов (845)249-38-78  
Севастополь (8692)22-31-93  
Саранск (8342)22-96-24  
Симферополь (3652)67-13-56  
Смоленск (4812)29-41-54  
Сочи (862)225-72-31  
Ставрополь (8652)20-65-13  
Сургут (3462)77-98-35  
Сыктывкар (8212)25-95-17  
Тамбов (4752)50-40-97  
Тверь (4822)63-31-35

Тольятти (8482)63-91-07  
Томск (3822)98-41-53  
Тула (4872)33-79-87  
Тюмень (3452)66-21-18  
Ульяновск (8422)24-23-59  
Улан-Удэ (3012)59-97-51  
Уфа (347)229-48-12  
Хабаровск (4212)92-98-04  
Чебоксары (8352)28-53-07  
Челябинск (351)202-03-61  
Череповец (8202)49-02-64  
Чита (3022)38-34-83  
Якутск (4112)23-90-97  
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +(727)345-47-04

Беларусь +(375)257-127-884

Узбекистан +998(71)205-18-59

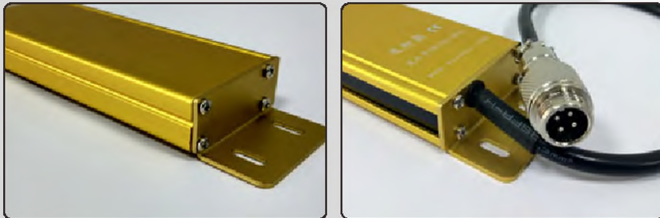
Киргизия +996(312)96-26-47

эл.почта: [ehw@nt-rt.ru](mailto:ehw@nt-rt.ru) || сайт: <https://espetech.nt-rt.ru>

# 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



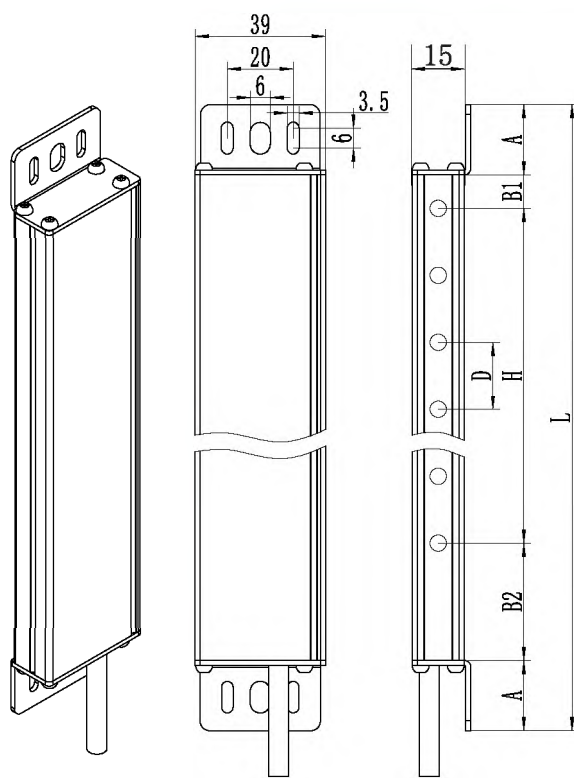
## Technical Parameter

| 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<br>20mm: 4, 6, 8……80<br>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%                                                                                               |

## 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<br>20mm<br>40mm | N: NPN<br>P: PNP | C : normally close | Parallel scanning<br>C:cross scanning |   | 0.5: 0.1~0.5M<br>2: 0.1~2M<br>4: 0.1~4M |

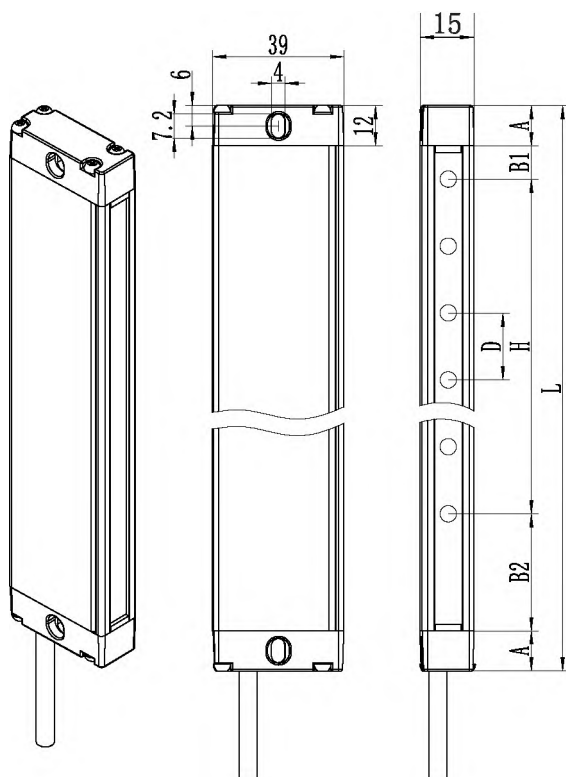
## Product size



### 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:  $H=(\text{beams}-1) * \text{beam space}$



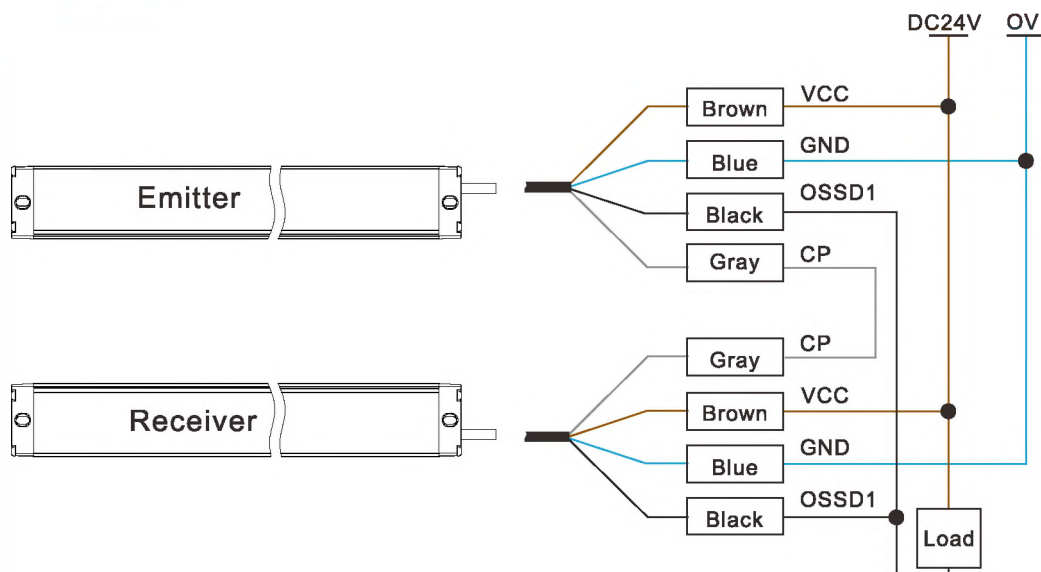
### Plastic cover

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

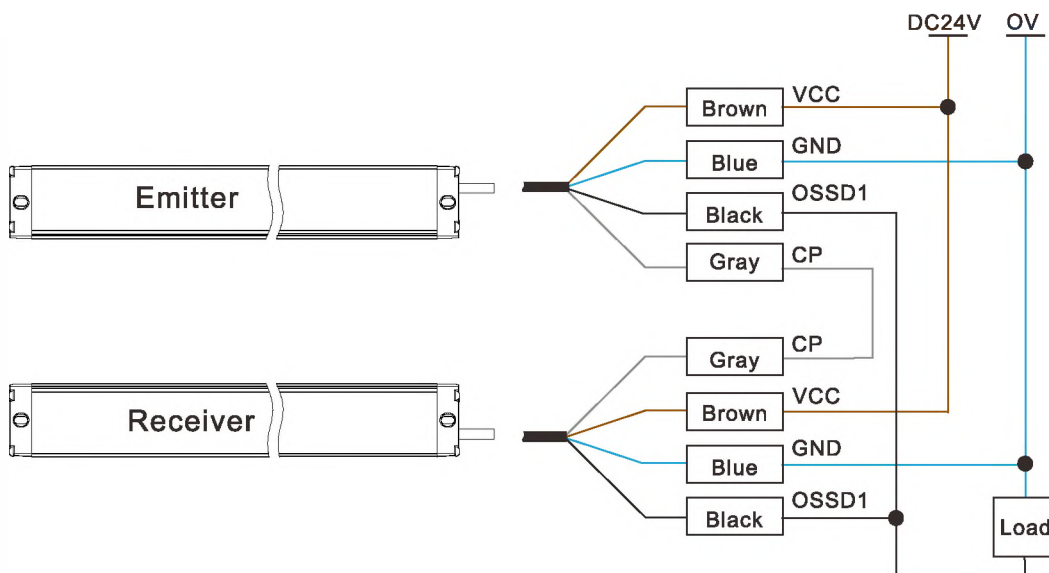
A=12mm;  
 When D=10mm, B1=5mm; B2=25mm  
 When D=20mm, B1=5mm; B2=15mm  
 When D=40mm, B1=5mm; B2=15mm  
 L is total height:  $L=A1+A2+B1+B2+H$   
 H is protective height:  $H=(\text{beams}-1) * \text{beam space}$

## Wire connection

### NPN type

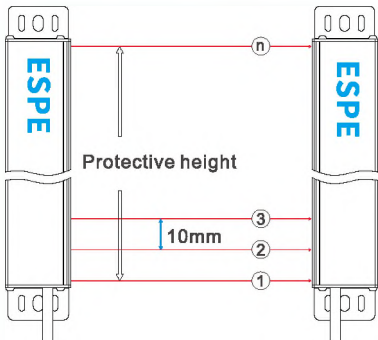
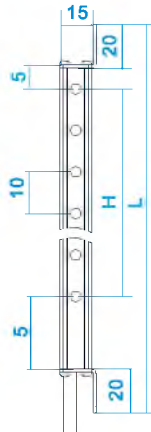
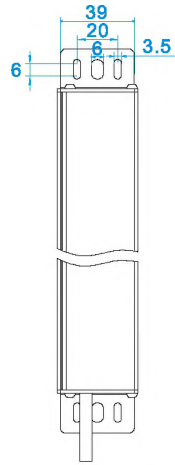


### PNP type



## EB15 selection sheet

● Beam space 10mm, resolution 15mm

| Picture                                                                             | Beams<br>(n) | Protective<br>height(mm) | Total height<br>(mm) | Model      | Size<br>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         |
|                                                                                     | 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        |
|                                                                                     | 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:

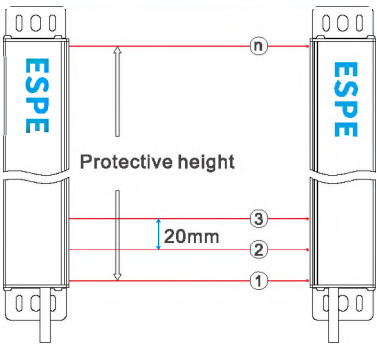
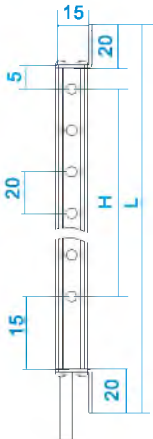
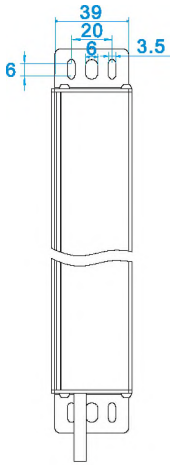
$H = (\text{Beams} - 1) * \text{beam space}$

L 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 20mm, resolution 25mm

| Picture                                                                                                                                                                                                  | Beams (n) | Protective height(mm) | Total height (mm) | Model     | Size L*W*H(mm) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------|-------------------|-----------|----------------|
|                                                                                                                         | 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      |
|  <p>Front view</p>  <p>Top-view</p> | 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:

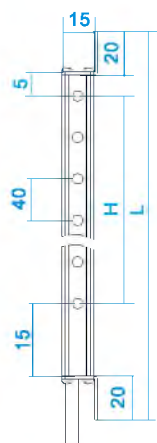
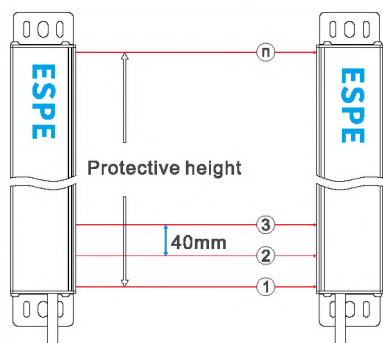
$H = (\text{Beams} - 1) * \text{beam space}$

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

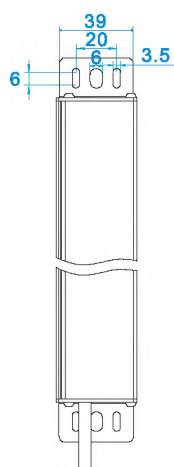
Besides of above model, we can customize the protective height according to your request.

## EB15 selection sheet

- Beam space is 40mm, resolution 45mm



### Front view

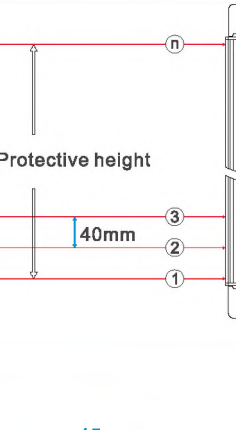
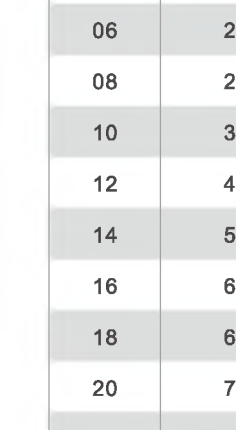
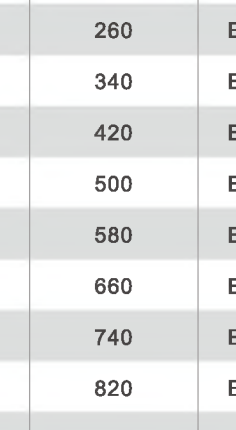
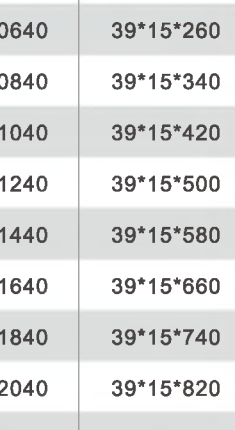
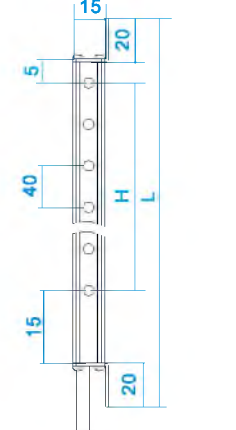
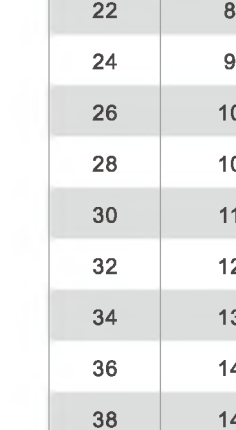
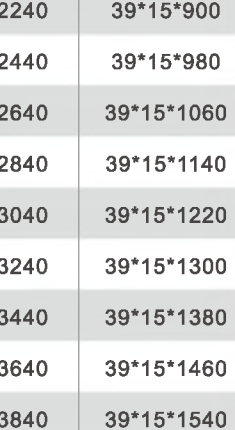
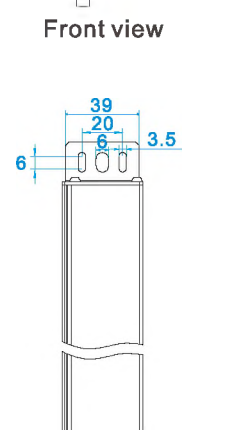
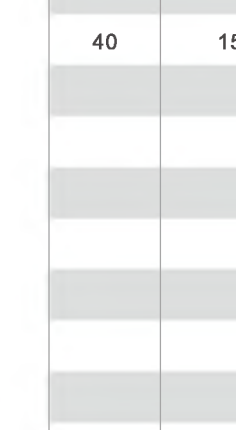
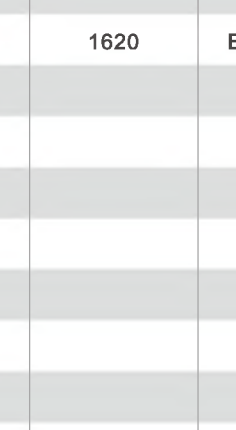
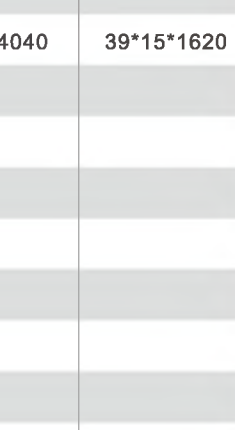
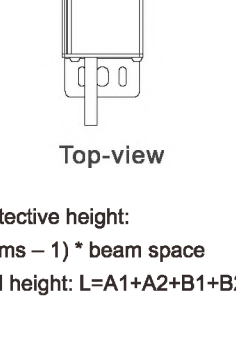
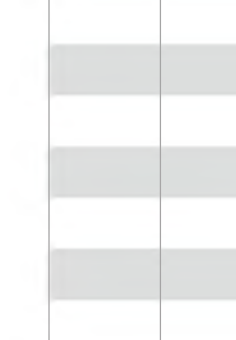
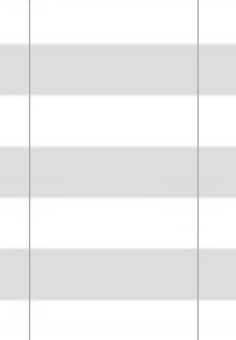
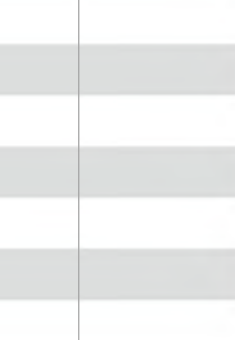
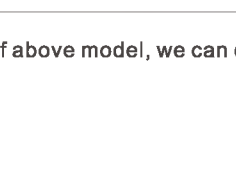
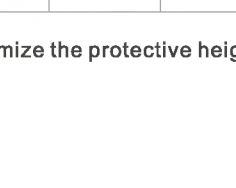
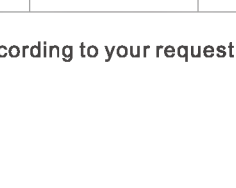


Top-view

H is protective height:

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

L is total height:  $L=A_1+A_2+B_1+B_2+H$

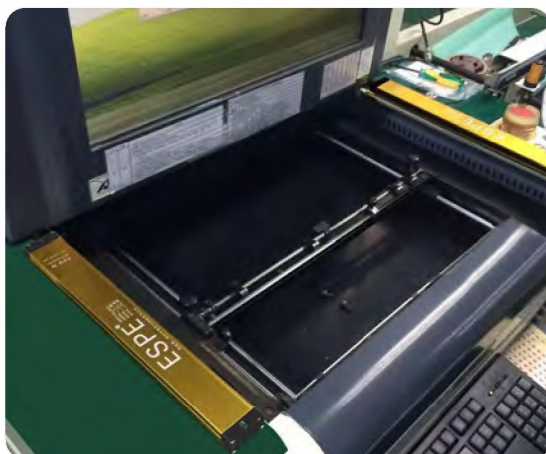
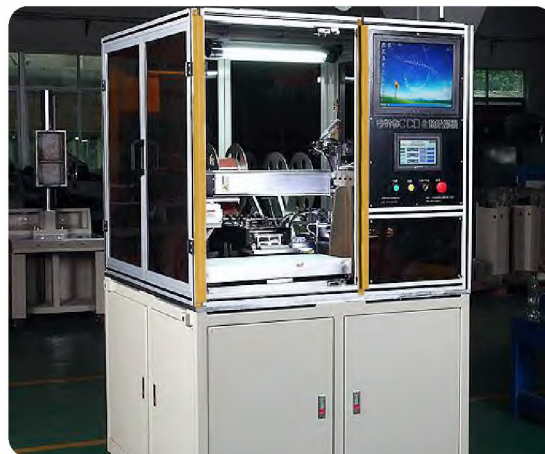
| Picture                                                                               | Beams<br>(n) | Protective<br>height(mm) | Total height<br>(mm) | Model     | Size<br>L*W*H(mm) |
|---------------------------------------------------------------------------------------|--------------|--------------------------|----------------------|-----------|-------------------|
|      | 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        |
|                                                                                       |              |                          |                      |           |                   |
|   |              |                          |                      |           |                   |
|                                                                                       |              |                          |                      |           |                   |
|  |              |                          |                      |           |                   |
|                                                                                       |              |                          |                      |           |                   |
|    |              |                          |                      |           |                   |
|                                                                                       |              |                          |                      |           |                   |
|    |              |                          |                      |           |                   |
|                                                                                       |              |                          |                      |           |                   |
|   |              |                          |                      |           |                   |
|                                                                                       |              |                          |                      |           |                   |
|  |              |                          |                      |           |                   |
|                                                                                       |              |                          |                      |           |                   |
|    |              |                          |                      |           |                   |
|                                                                                       |              |                          |                      |           |                   |
|    |              |                          |                      |           |                   |
|                                                                                       |              |                          |                      |           |                   |
|   |              |                          |                      |           |                   |
|                                                                                       |              |                          |                      |           |                   |
|  |              |                          |                      |           |                   |
|                                                                                       |              |                          |                      |           |                   |

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

## Installation picture

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

## Application case



## По вопросам продаж и поддержки обращайтесь:

Алматы (727)345-47-04  
Ангарск (3955)60-70-56  
Архангельск (8182)63-90-72  
Астрахань (8512)99-46-04  
Барнаул (3852)73-04-60  
Белгород (4722)40-23-64  
Благовещенск (4162)22-76-07  
Брянск (4832)59-03-52  
Владивосток (423)249-28-31  
Владикавказ (8672)28-90-48  
Владимир (4922)49-43-18  
Волгоград (844)278-03-48  
Вологда (8172)26-41-59  
Воронеж (473)204-51-73  
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06  
Ижевск (3412)26-03-58  
Иркутск (395)279-98-46  
Казань (843)206-01-48  
Калининград (4012)72-03-81  
Калуга (4842)92-23-67  
Кемерово (3842)65-04-62  
Киров (8332)68-02-04  
Коломна (4966)23-41-49  
Кострома (4942)77-07-48  
Краснодар (861)203-40-90  
Красноярск (391)204-63-61  
Курск (4712)77-13-04  
Курган (3522)50-90-47  
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13  
Москва (495)268-04-70  
Мурманск (8152)59-64-93  
Набережные Челны (8552)20-53-41  
Нижний Новгород (831)429-08-12  
Новокузнецк (3843)20-46-81  
Ноябрьск (3496)41-32-12  
Новосибирск (383)227-86-73  
Омск (3812)21-46-40  
Орел (4862)44-53-42  
Оренбург (3532)37-68-04  
Пенза (8412)22-31-16  
Петрозаводск (8142)55-98-37  
Псков (8112)59-10-37  
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15  
Рязань (4912)46-61-64  
Самара (846)206-03-16  
Санкт-Петербург (812)309-46-40  
Саратов (845)249-38-78  
Севастополь (8692)22-31-93  
Саранск (8342)22-96-24  
Симферополь (3652)67-13-56  
Смоленск (4812)29-41-54  
Сочи (862)225-72-31  
Ставрополь (8652)20-65-13  
Сургут (3462)77-98-35  
Сыктывкар (8212)25-95-17  
Тамбов (4752)50-40-97  
Тверь (4822)63-31-35

Тольятти (8482)63-91-07  
Томск (3822)98-41-53  
Тула (4872)33-79-87  
Тюмень (3452)66-21-18  
Ульяновск (8422)24-23-59  
Улан-Удэ (3012)59-97-51  
Уфа (347)229-48-12  
Хабаровск (4212)92-98-04  
Чебоксары (8352)28-53-07  
Челябинск (351)202-03-61  
Череповец (8202)49-02-64  
Чита (3022)38-34-83  
Якутск (4112)23-90-97  
Ярославль (4852)69-52-93

**Россия** +7(495)268-04-70

**Казахстан** +(727)345-47-04

**Беларусь** +(375)257-127-884

**Узбекистан** +998(71)205-18-59

**Киргизия** +996(312)96-26-47

эл.почта: [ehw@nt-rt.ru](mailto:ehw@nt-rt.ru) || сайт: <https://espetech.nt-rt.ru>