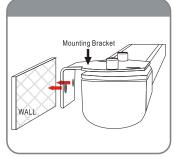
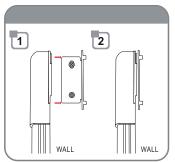
Standard Installation





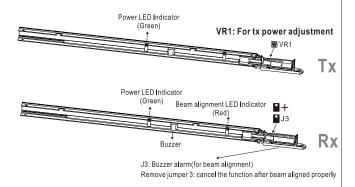


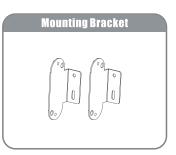
Inter<u>nal View</u> ABS-Side Upper Cap PC Resin Cover

ABS-Side Bottom Casing

< 30,000 8meters < 40.000 7meters < 50,000 6meters < 60,000 5meters < 70,000 4meters < 80,000 3meters

Sensing range V.S. Sunlight



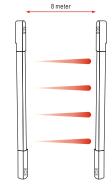


Terminal Block (Wiring Connection - Optional) Buzzer alarm for beam alignment fuction Remove: OFF Existing: ON Tamper Switch: Tx power adjustment DC-DC+ Normal Open-NO 0 0 - сом Common-0 0 NC Normal Close-

PROTECTOR-2X/4X/6X/8X

PROTECTOR-2X: 2 Beams - 57 cm long. PROTECTOR-4X: 4 Beams - 105 cm long. PROTECTOR-6X: 6 Beams - 153 cm long. PROTECTOR-8X: 8 Beams - 201 cm long.

PROTECTOR-M \mathbb{X} =2 or 4 or 6 or 8 beams



Applications

- O Indoor / Outdoor perimeter security system
- Window, Door. When the mounting space is limited
- O Internal / External protection / Terrace / Sliding door

Features

- Aluminum housing / PC Resin anti-UV cover / ABS side cap.
- Anti-tamper circuit triggers alarm if power is cut or end cap is removed.
- Slim aluminum housing, anti high-low temperature / fog / rains.
- ② 2 or 4 / 6 / 8 separate photoelectric beam sensors. Programmable trigger on simultaneous breaking of any single / 2 adjacent beams or 2 adjacent beams

- Terminal block connection.
- Alarm: Break one or two adjacent beams.
- Tx power adjustment: By VR1(ON Tx's side cap).
- 16 meters (52 ft.) -- indoor Max.
- Mounting hardware included.
- No synchronizing wires required.
- O Led alignment indicator.

Specifications

Sensing range	8 meters (26 feet) maxoutdoor / 16 meters (52 feet) maxindoor
Input Voltage	10-30VDC
Detection method	Break one beam or two adjacent beams (1) 1 beam: 2 seconds alarm (2) 2 adjacent beams: immediately ***1 beam broken alarm trigger function can be removed; See (+) VR which located at Rx's side cap; (+) Jumper closed: 1 beam broken alarm (2 sec.) function existed. (+) Jumper opened: 1 beam broken alarm (2 sec.) function removed.
Signal output	Normal open / Normal close / Common relay output
Response Time	200 msec
Contact rating	1A/120VAC ; 1A/24VDC
Tx Power Adjustment (by VR1)	(a) when turn clockwise: become stronger (b) when turn counter-clockwise: become normal
Wiring Connection	Terminal block (See page 4)
Power Led indicator	Green Led (On both Tx/Rx unit) On : powered Off : no power
Led indicator for Beam alignment	Red Led (On Rx unit) On : when beam is broken ; Off : when beam is aligned properly
Buzzer Alarm (for beam alignment) Black jumper3(J3)(ON Rx)unit	(a)On : when sensor is connected with DC power & before beam alignment is done. (b)Off : when beam aligned properly ; automatically. ***This function can be cancelled by jumper3 removed***
Tamper Switch	4 pcs/each set; 2 on both sides of Tx/2 on both side of Rx
Operating Temp	-45°C~55°C (-49°F~131°F)
Dimensions	W: 35 mm / H: 30 mm / L: see following
Humidity	70%

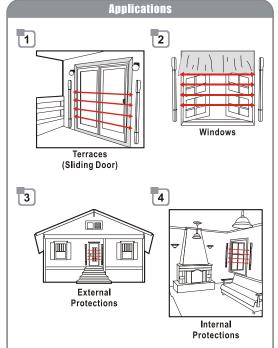
Consumption current ▶ One beam broken continued 2 senconds alarm triggered Cancelled. ("+" jumper opened) PROTECTOR-2X PROTECTOR-4X PROTECTOR-6X PROTECTOR-8X Rx Rx Tx Rx Tx Τx Тx Beam Aligned 45mA 32mA | 55mA | 35mA | 65mA 38mA 75mA 42mA Tx Rx Tx Rx Tx Rx Tx Rx Beam Broken 45mA 40mA 55mA 43mA 65mA 45mA 75mA 48mA ▶ One beam broken continued 2 senconds alarm triggered **Existed**. ("+" jumper closed) PROTECTOR-2X PROTECTOR-4X PROTECTOR-6X PROTECTOR-8X B Rx Tx Rx Tx Rx Tx Rx

40mA 65mA

45mA 45mA 55mA 48mA 65mA 52mA 75mA 55mA

Tx

Rx



Beam Aligned

Beam Broken

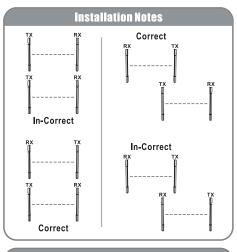
45mA

Tx

38mA | 55mA |

Tx

Rx



43mA 75mA 45mA

Tx

Rx

Rx

