

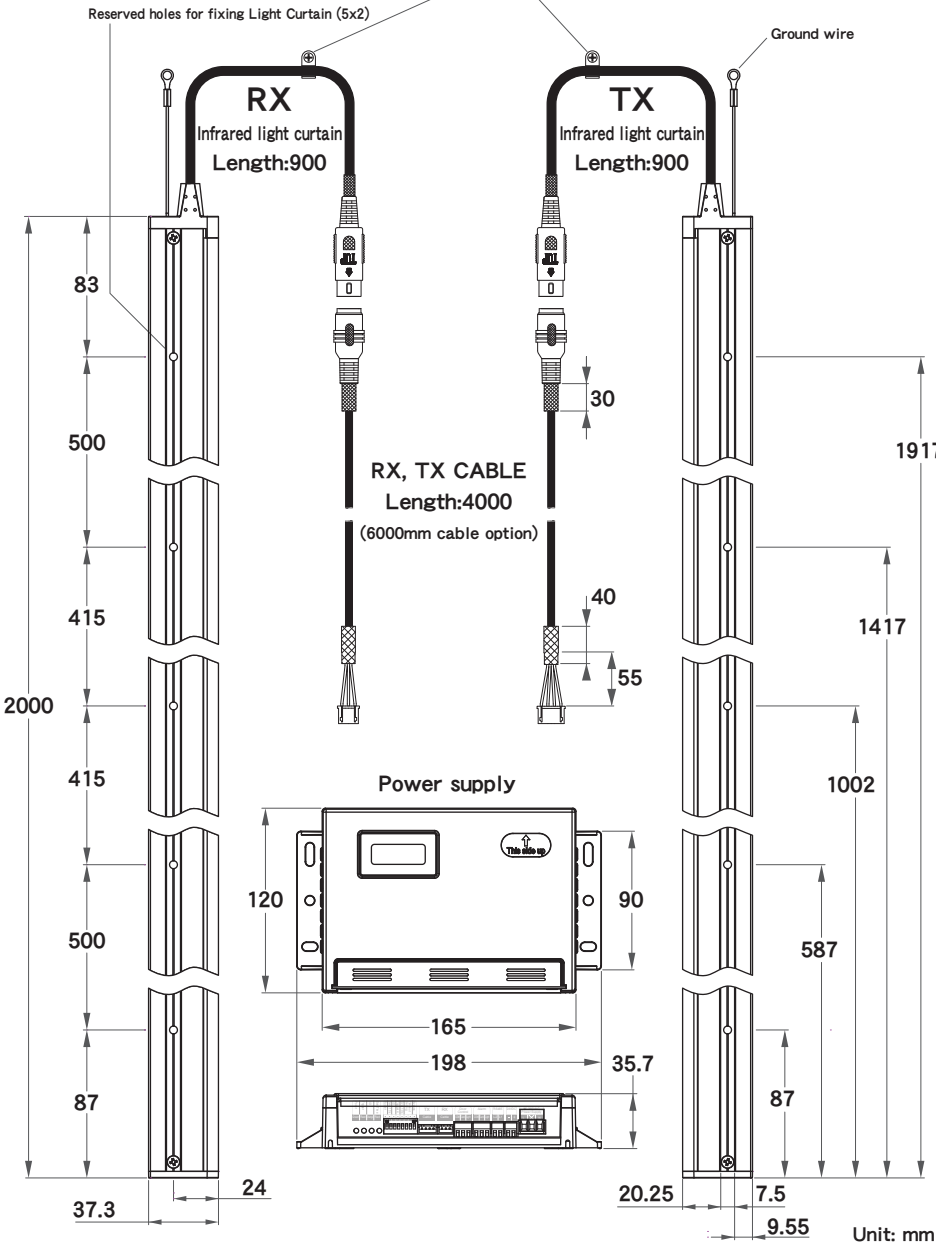
Light curtain components

Infrared light curtain (RX, TX)	2 pcs
Cable 4M (RX, TX)	2 pcs
Power supply (PS-1226-3)	1 pce
Fixing kit	1 pk
Instruction manual	1 pce

Screw components

a.	b.	c.	d.	e.	f.
					
M3.5x16L	M3.5x19L	M3.5	M4x12L	M4	CC-3
Cross recessed pan head tapping screws	Cross recessed flat head tapping screws	Internal tooth washer	Cross recessed pan head tapping screws	Internal tooth washer	Snap Bushing
x10	x10	x10	x12	x2	x10
Fix the detectors			Fix the cables		

Fixed from the front Fixed from the back Use snap bushing (f.) to wrap cable; Use screw (d.) with (e.) to fix cable.



MB 194 light curtain features

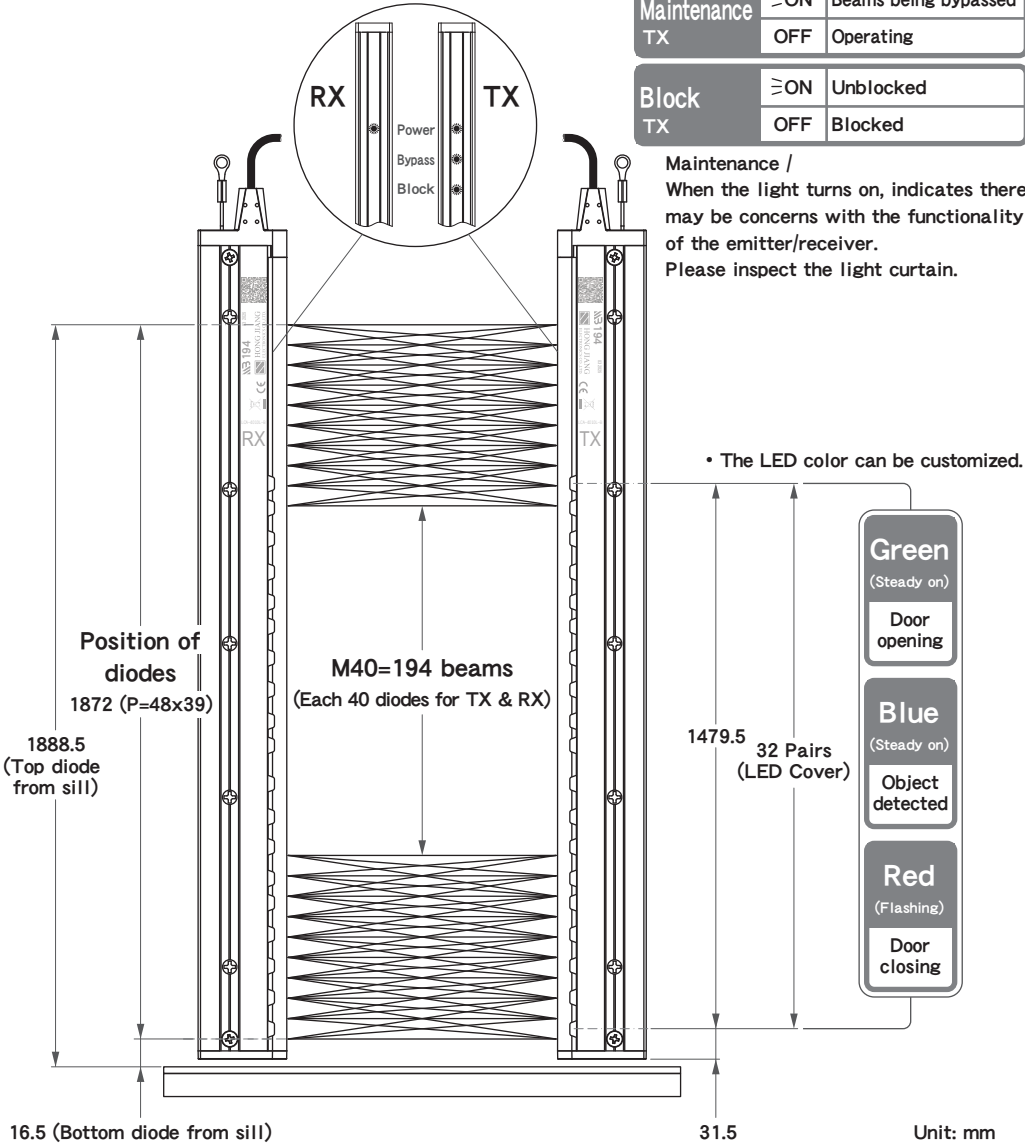
- Input voltage 85-265VAC (110/220)
- Up to 194 infrared beams.
- Three-stage visual indicator light.
- Two high speed CPUs process at the same time, they respond fast and accurate.
- Light curtain body is fully electroplated to reduce oxidation and dirt.
- Elegant hairline finished.
- When the door is fully closed for more than 10 seconds, light curtain will go into sleep mode.
- Easy to install. Mounting methods will depend on the site conditions.
- Ultra-thin 9mm type, more convenient to use.
- EN81-20 5.3.6.2.2.1 b) 1), 2) Compliant.
- IP55 Protected from limited dust ingress.
- The full series of product (include power supply) pass safety examination.



Diagnosis display of light curtain indicating light
(The indicating lights are all red)

Power TX/RX	ON	Normal working voltage
	OFF	Abnormal working voltage
Maintenance TX	ON	Beams being bypassed
	OFF	Operating
Block TX	ON	Unblocked
	OFF	Blocked

Maintenance / When the light turns on, indicates there may be concerns with the functionality of the emitter/receiver. Please inspect the light curtain.



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Instruction Manual
Light Curtain



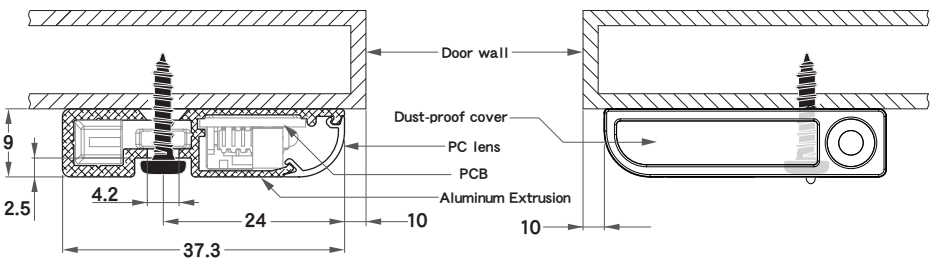
MB 194 SERIES
2D LED
LCA-4010L-B 2D

Installation precautions

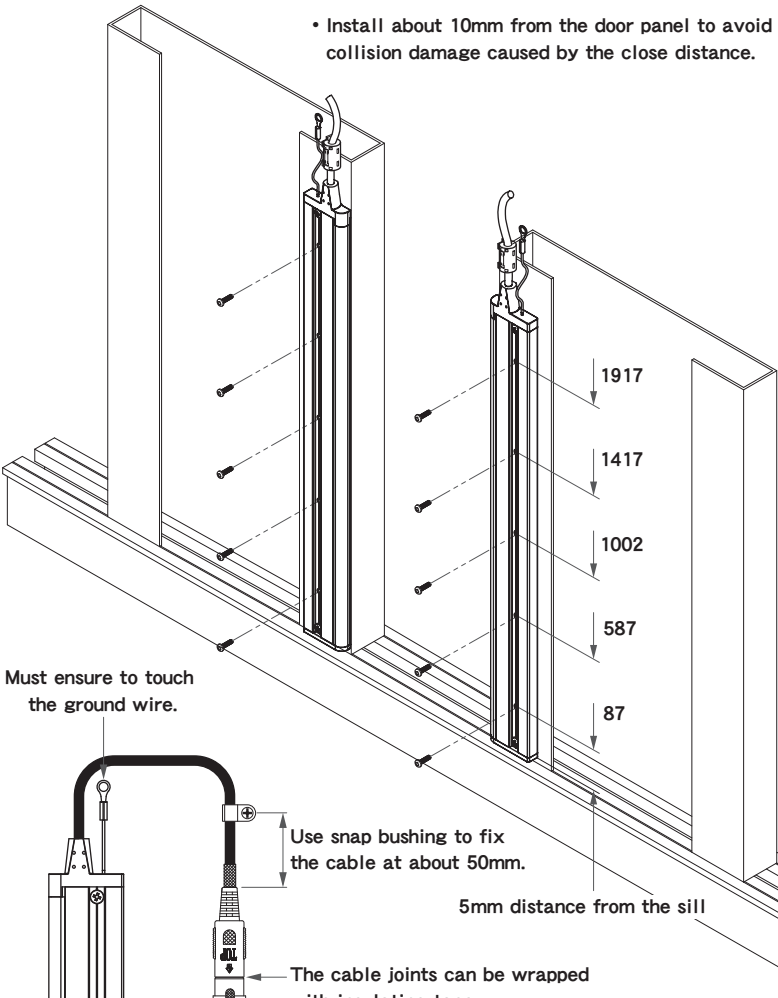
- 1. According to the situation, select the suitable attached bracket to install the light curtain.
- 2. The ground wire of light curtain must ensure to touch the ground.
- 3. When placing the light curtain, the lower end is about 5mm from the ground and ensure TX and RX are kept flat and straight.
- 4. The distance between the mechanism side of TX, RX and the mechanical door is 10mm (as the picture below).
- 5. Mark five fixing holes.
- 6. Remove the detectors from the door before drilling.
- 7. Screw the detector to the car door using tapping screw M3.5x16L.
- 8. The position of TX and RX can be exchanged using tapping screw M3.5x19L.
- 9. After installation, fix the cables on the door panel by using snap bushing.

Installation method

Use cross recessed flat head tapping screws M3.5x16L to fix light curtain on the door panel.



• Install about 10mm from the door panel to avoid collision damage caused by the close distance. Unit: mm



Use snap bushing to fix the cable at about 50mm.

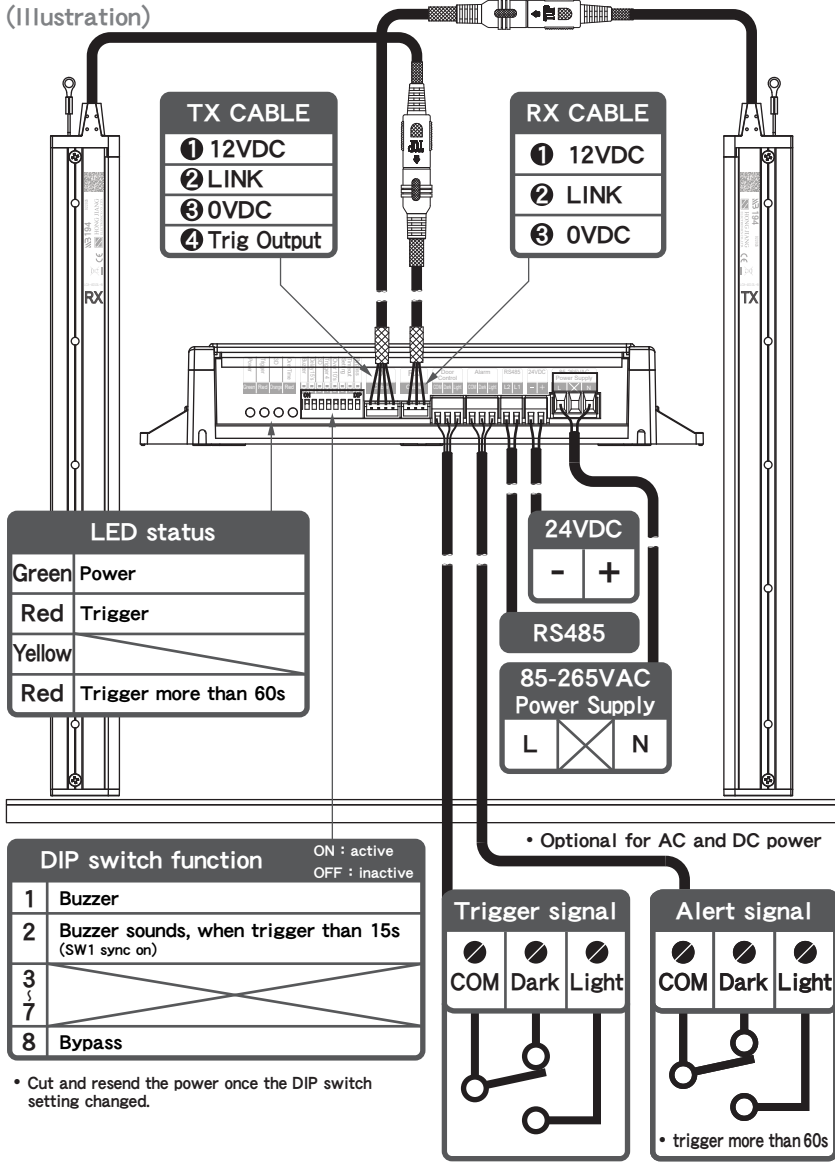
5mm distance from the sill

The cable joints can be wrapped with insulating tape.

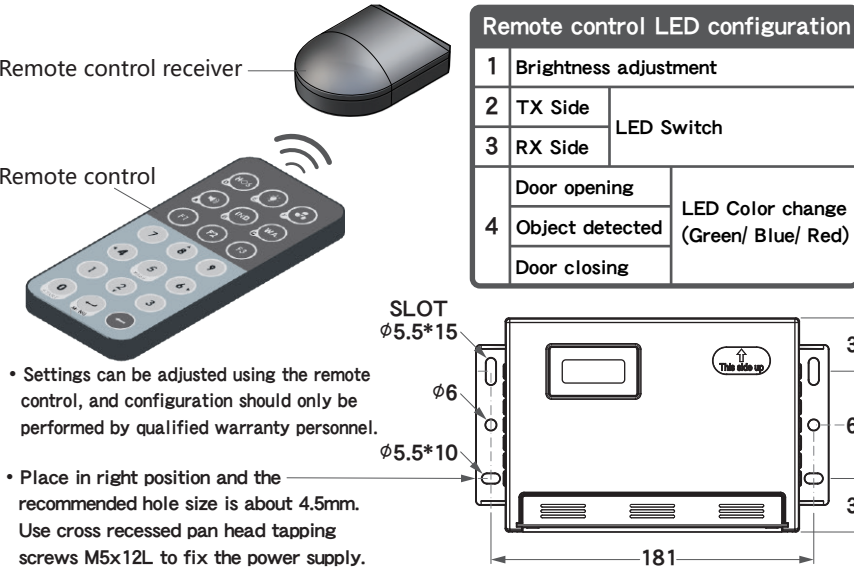
• Use snap bushing and pan head tapping screws M4x12L to fix the cable to prevent the cable from being twisted or broken irregularly.

Standard wiring diagram

(Illustration)



- Do not use beyond the voltage/current range and prevent incorrect wiring. Please avoid the load short circuit at the same time. When the above conditions occur, it might cause the light curtain to be damaged or burned.
- The limit of the light curtain extension cable is 8 meters.
- When the system controls the transmission wire, the signal wire of the light curtain should be prevented by independent metal pipe. Avoiding interfered by high-voltage wire (electricity or power cable).



• Settings can be adjusted using the remote control, and configuration should only be performed by qualified warranty personnel.

• Place in right position and the recommended hole size is about 4.5mm. Use cross recessed pan head tapping screws M5x12L to fix the power supply.

Mechanical characteristics

Product spec	Model	LCA-4010L-B	
	Product Name	Multiple Infrared Light Curtain	
	Material	case/aluminum alloy, lens/PC	
	Detection Type	bijection scanning	
	No. of Diode/Light Beam	40/194	
	Diodes/Beams Spacing	48mm/0~48mm	
	Detector (set) N.W/DIM	1128g/2000x37.3x9mm(LxWxH)	
Reliability	Power Supply N.W/DIM	310g/198x120x35.7mm(LxWxH)	
	Cable Length (Detector+Extension)	4900(900+4000)mm	
	Detecting Height	Lowest	11.5mm (meet EN81-20)
		Highest	1883.5mm (meet EN81-20)
	Detecting Range		3000mm
	1000mm Max Tolerance	Vertical	120mm
		Horizontal	30mm
		Angular	±5°
Certifications	The allowed misalignment distance when the door is closed		Door close 0cm front and back 0.3cm top and bottom 2cm Door close 2cm front and back 0.7cm top and bottom 4cm
	Highest Light Immunity		100,000 lux
	CE EN12015/12016	No: ETC 24-02-RBO-029	
	EN81-20	5.3.6.2.2.1 b) 1), 2)	
	IP55 (IEC60529)		No:19-05-RBD-011

Electrical characteristic (Optional for AC and DC power)

Electrical spec	Standard Voltage (PS-1226-3)	110 / 220VAC	24VDC	
	Applicable Voltage Range	85-265VAC/50-60HZ	18-30VDC	
	Standby Current Consumption	Input voltage 110VAC	40mA	Standard voltage 70mA
		Input voltage 220VAC	30mA	Lowest voltage 130mA
		Input voltage 220VAC	90mA	Highest voltage 60mA
	Operating Current Consumption (Doors widely open with a distance of 3M and without interruption)	Input voltage 110VAC	140mA	Standard voltage 310mA
		Input voltage 220VAC	90mA	Lowest voltage 430mA
		Input voltage 220VAC	90mA	Highest voltage 240mA
	Response Time	≤ 50 ms (without PS-1226-3)		
	Operating Temperature Range	-20°C ~60°C		