Data Sheet

Patented in: China, Europe, USA, Canada

C10 Linear LED Light

Model: C10



Available in frosted lens



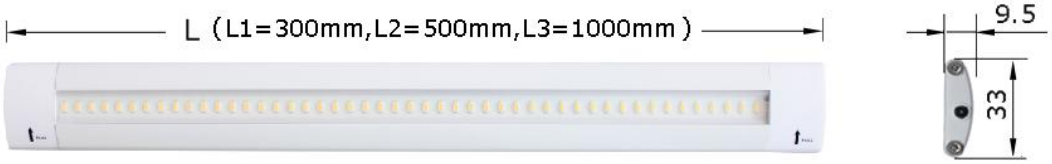
C10A (C10 with ON/OFF switch)



C10D (C10 with Built-in Touch dimmer)



Size



CLEDLIGHT's C10 Cambered Linear LED Light is perfect for installation in showcases, display case or furniture. This Linear LED Light is especially applied to hidden/ covert installation. After processed by special optical system, this kind of flat linear light indeed becomes a continuous well-proportioned linear light source. With unique design, which has patented, the lamp can be easily to change the illuminated direction. The direction of LED light can be adjusted to 0°, 45°and 90°. With various accessories, the led light can have different extended functions like connection, motion and light sensor, dimmer and switch, etc.

Advantages

- Energy saving up to 50% compared with traditional fluorescent under the same flux
- Life Span–over 50,000 hours
- Available in cool white, neutral white, and warm white color temperatures;
- Standard length: L1=300MM, L2=500MM and L3=1000MM, and customized length is also available. Standard finish color: white or silver, and customized color is also available.
- Easy linking up to 48 watts per run and up to 3 meters when connected in series.
- Easy installation with only 2 screws.
- The direction of LED light can be adjusted for 0°,45° and 90 °.
- Low voltage, more safety.
- Warranty: 5 years.

Applications

LED show case lighting; LED shelf lighting; LED retail product Lighting; LED Furniture Lighting; LED bookcase lighting; LED wardrobe lighting; LED wine cabinet lighting; LED under cabinet lighting; LED kitchen cabinet lighting; LED cove lighting; LED accent lighting; LED task lighting; LED product line lighting

Technical Operating Data (Clear lens)

Model No.	length	Number of leds	Voltage	Power	Radiance	Color Temp.	CRI	Luminous Flux
	[mm]	**[pcs]**	**[Vdc]**	**[W]**	**Angle [°]**	**[K]**		**[lm]***
C10L6"	L=150	21	24	2.5	120	2700-6500k	>80	250
C10L8"	L=203	28	24	3	120	2700-6500k	>80	300
C10L1=12"	L=300	49	24	5	120	2700-6500k	>80	500
C10L16"	L=406	63	24	6.5	120	2700-6500k	>80	650
C10L2=20"	L=500	77	24	8	120	2700-6500k	>80	800
C10L22"	L=560	84	24	9	120	2700-6500k	>80	900
C10L24"	L=610	98	24	10	120	2700-6500k	>80	1000
C10L32"	L=813	126	24	13	120	2700-6500k	>80	1300
C10L3=40"	L=1000	154	24	15	120	2700-6500k	>80	1500

Technical Operating Data (frosted lens)

Model No.	length	Number of leds	Voltage	Power	Radiance	Color Temp.	CRI	Luminous Flux
	[mm]	**[pcs]**	**[Vdc]**	**[W]**	**Angle [°]**	**[K]**		**[lm]***
C10L6”	L=150	21	24	2.5	120	2700-6500k	>80	210
C10L8”	L=203	28	24	3	120	2700-6500k	>80	250
C10L1=12”	L=300	49	24	5	120	2700-6500k	>80	420
C10L16”	L=406	63	24	6.5	120	2700-6500k	>80	550
C10L2=20”	L=500	77	24	8	120	2700-6500k	>80	680
C10L22”	L=560	84	24	9	120	2700-6500k	>80	760
C10L24”	L=610	98	24	10	120	2700-6500k	>80	850
C10L32”	L=813	126	24	13	120	2700-6500k	>80	1100
C10L3=40”	L=1000	154	24	15	120	2700-6500k	>80	1200

Dimensions: 33mm (width) x 9.5mm (height) x “L”
Materials: Aluminum extrusion with plastic end caps, Acrylic Lens
Light Source: High brightness SMD3014 LED
Operating Temperature: -20°C to 40°C - Indoors
Installation: 2 M3x10 screws make it easy to install

Usage Instruction

1. **Standard package**

Standard package includes:
1 piece of LED light, 1 piece of connecting cable, 1 piece of straight connector, 2pcs of screws

C10/C10A/C10D LINEAR LED LAMP (1 piece)



M3x10 screws



C1001 STRAIGHT CONNECTOR (1 piece)



AC01W CONNECTING CABLE



LED light (1 piece) :

C10: Basic model number, can connect with various accessories to get many extended functions.
C10A: With built-in on-off switch. Switch function: master switch or individual switch to control itself
C10D: With built-in touch dimmer. By touching this icon , it can not only be dimmable with the lamp gradually brighter or darker but also have on/off switch function.

Screws (2PCS): M3.0X10
Straight connector (1 piece): can be used for direct connection of LED fixtures.
Connecting cable (1 piece): 1 meter long, can be used for long distance connection of LED fixtures.

2. Basic Usage: The LED light needs to connect with power supply directly.

The LED light needs to plug into power supply and then it can work, please refer to the picture as below.



3. Using straight connector and connecting cable to connect the LED lights.

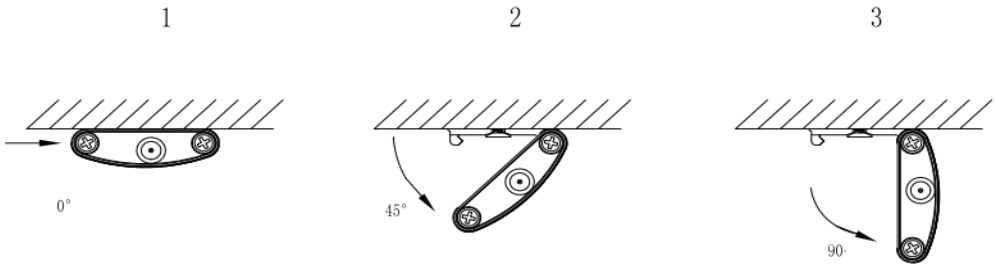
Based on the above usage, using straight connector and connecting cable can make LED lights interconnection , please refer to the picture as below.





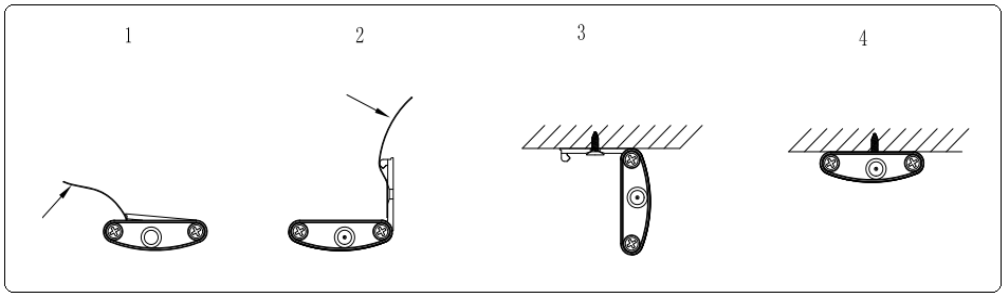
Note： The maximum length for connection is not over than 3 meters.

4. Adjust the direction of LED light



The direction of LED light can be adjusted to 0°, 45°and 90°.

Installation of LED lights



1. Pull up the blue adhesive tape.
2. The adhesive tape will take mounting plate rotate to 90°.
3. Rip the tape and fix the mounting plate with M3*10 screws onto the place where the LED light needs to be installed.

Power supply usage instruction

The following table shows how many lamps the power supply can drive respectively. You can select suitable power supply according to the power per run.

Power Supply	C10L6"	C10L8"	C10L12"	C10L16"	C10L20"	C10L24"	C10L32"	C15L40"
6W	2	2	1	XX	XX	XX	XX	XX
12W	4	4	2	1	1	1	XX	XX
24W	9	8	4	3	3	2	1	1
36W	14	12	7	5	4	3	2	2

Remarks:

1. The standard package of LED light doesn't include power supply, but we can offer the power supply in separated package in different models for your choice.
2. The power of power supply must be over the total power of connected LED lights in series.
3. The voltage of constant-voltage power supply must be same as the voltage of LED lights. The output voltage of power supply can't be allowed to be higher than the input voltage of LED light. If you choose to use other power supply, the power supply must have short circuit protection, overload protection, overheat protection besides the above requirements.

Packing Information

Product	Color box* size	Carton size	Units/ carton	Net weight [Kg]	Gross weight [Kg
C10L6"/C10AL6"	150X36X12	170(length）X120（width）X230（height）	40	3	4
C10L8"/C10AL8"	205X36X12	220(length）X120（width）X230（height）	40	3.5	4.5
C10L1/C10AL1	300X36X12	320(length）X120（width）X230（height）	40	6.5	7.5
C10L16"/C10AL16"	410X36X12	430(length）X120（width）X230（height）	40	7	8
C10L2/C10AL2	500X36X12	520(length）X120（width）X230（height）	40	8	8.5
C10L22"/C10AL22"	560X36X12	580(length）X120（width）X230（height）	40	8.5	9
C10L24"/C10AL24"	610X36X12	630(length）X120（width）X230（height）	40	9	9.5
C10L32"/C10AL32"	815X36X12	835(length）X120（width）X230（height）	40	14	15
C10L3/C10AL3	1000X36X12	1120(length）X120（width）X230（height）	40	17	18
Power supply(6w)	76X61X46	250(length）X170（width）X270（height）	40	2.5	3.0
Power supply(12w)	136x58x77	315(length）X290（width）X340（height）	40	8.4	8.9
Power supply(24w)	136x58x77	315(length）X290（width）X340（height）	40	10.0	10.5
Power supply (36w)	136x58x77	315(length）X290（width）X340（height）	40	10.0	10.5
C10 connector	76X61X46	250(length）X170（width）X270（height）	360	2.5	3
cable	76X61X46	250(length）X170（width）X270（height）	120	2	2.5

C10 Master switch	76X61X46	250(length）X170（width）X270（height）	240	2.5	3
C10 Touch dimmer	76X61X46	250(length）X170（width）X270（height）	240	4	4.5
C10 DC Junction box	76X61X46	250(length）X170（width）X270（height）	240	2.7	3.2
P02 PIR Sensor	76X61X46	250(length）X170（width）X270（height）	120	2	2.5
4-way splitter	76X61X46	250(length）X170（width）X270（height）	120	2.5	3
8-way spliiter	76X61X46	250(length）X170（width）X270（height）	120	3.2	3.7
dimmer	76X61X46	250(length）X170（width）X270（height）	60	2.2	2.7

C10 Extended accessories

Except the standard accessories, we also can offer optional extended accessories of C10 system for your choice to get more various functions. For example: connection, sensor, dimmer and switch, etc.

C1003 IN-LINE SWITCH



C1004 IN-LINE TOUCH DIMMER



C1005 DC JUNCTION BOX



D01 WIRED DIMMER



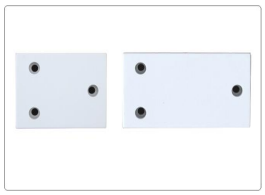
P01 PIR SENSOR



P02 IN-LINE MOVING SENSOR



AC02W 4/8 WAY SPLITTER



Installation instructions of extended accessories

1. **In-line switch**





Installation Instruction: Use In-line switch to connect with LED lights, then connect the power supply to the input side of the In-line switch.

Operation: Press the switch on the body to turn ON/OFF the system at any time and can control all the connected LED lights in a series.

2. **In-line Touch Dimmer: with dimmer and switch function**





Installation Instructions:

1. Use In-line Touch Dimmer to plug into the DC jack socket and secure the Dimmer to the mounting surface.
2. Connect the power supply to the input side of the Dimmer.

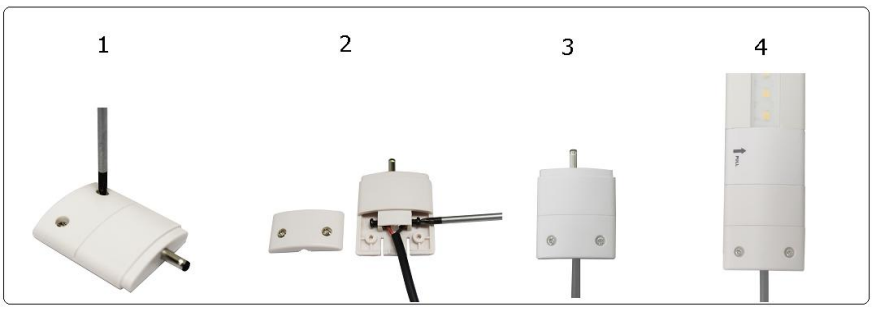
Operation:

1. Touch the power icon [] on the body to turn ON/OFF the system at any time.
2. The initial brightness is fixed at 100% when the system is first powered up.
3. When the light is on, the brightness can be adjusted by touching and holding the power icon for more than 0.5 seconds.
4. If the power to the dimmer is uninterrupted, the light level will be memorized when the system is turned off and then on again.
5. The dimmer switch can control all the connected LED lights in a series.

   Note：This touch switch can't control LED lights with built-in dimmer. If control the whole series in one line, please connect the LED lights without dimmer function.

3. **DC Junction box**





If use the power supply without DC plug or need to cut off the DC plug of power supply to connect LED light, you can choose to use DC junction box to connect the LED light with hardwired power supply.

Installation instructions:

1. Open the cover of DC junction box with screw driver.
2. Insert the positive and negative output side of power supply into the positive and negative terminal block and lock the screws of terminal block.
3. Close the cover by fastening the screws.
4. Plug the DC junction box into the DC jack socket and secure the DC junction box to the mounting surface.
5. Connect the power supply to the input side of the DC junction box.

   Note： The LED light will not work if the positive & negative output side between power supply and terminal block is not consistent. It will not destroy LED light and you can make the correct positive & negative connection between them.

4. Wired Dimmer: with dimmable and switch function





Installation Instructions:

1. Use the screws provided to secure the Dimmer to the mounting surface.
2. Connect the output to the LED light
3. Connect the power supply to the input side of the Dimmer.
4. This dimmer can be used in the place where the distance is less than 1 meter from the LED light

Operation:

1. Touch the power icon [] on the body to turn ON/OFF the system at any time.
2. The initial brightness is fixed at 100% when the system is first powered up.
3. When the light is on, the brightness can be adjusted by touching and holding the power icon for more than 0.5 seconds.
4. If the power to the dimmer is uninterrupted, the light level will be remembered when the system is turned off and then on again.
5. The dimmer switch can control all the connected LED lights in a series.

   Note： This touch switch can't control LED lights with built-in dimmer. If control the whole series in one line, please connect the LED lights without dimmer function.

5. Moving Sensor P02: With automatic sensor function.





Installation Instructions:

1. Use the sensor to plug into the DC jack socket and secure the Sensor to the mounting surface.
2. Connect the power supply to the input side of the Sensor.

Basic Data:

Detection Distance: 3m

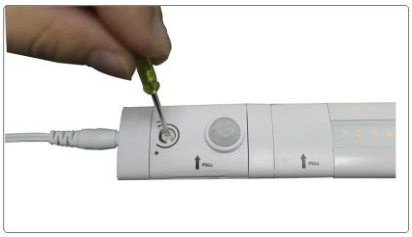
Detection Range: 120°

Installation Angle: 0°, 45°, 90°

Delay time: Standard is 30 seconds and can be adjusted to 2 minutes (can design in 1s ~20 minutes as customers' request)

Functional information：

1. Automatic detection: when people enter the detection area, infrared ray detector will output 12V or 24V and the light turns on.
2. Delay function: when people leave the detection area or people stay still, the light will turn off after 30 seconds. Delay time can be adjustable from 30 seconds to 3 minutes, or others.
3. Continuous detection: when people have activities during the period of delay time, the detector works and the light is always on.
4. Installation Angle: The sensor can be easily rotated and made 0 degrees or 45 degrees or 90 degrees with the mounting surface of light..

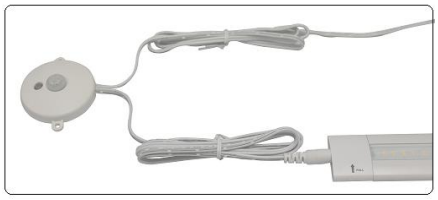




5. P02 PIR SENSOR is especially designed for CLEDLIGHT's C10,C11 series LED light, use for other product maybe can't work normally.

6. PIR Sensor P01: With automatic sensor function.





Installation Instructions:

1. Use the screws provided to secure the Sensor to the mounting surface.
2. Connect the output to the LED light
3. Connect the power supply to the input side of the Sensor.
4. This dimmer can be used in the place where the distance is less than 1 meter from the LED light.

Technical Features:

Dimensions: ¢ 48mm X 12mm

Installation: Use 2 M3.0x10 screws

Input/ Output voltage : DC12V or DC24V

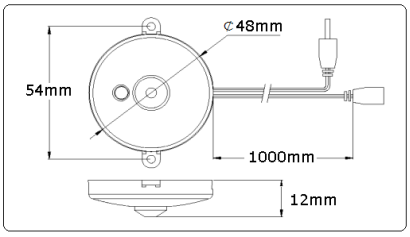
Related load wattage: Max 24W in 12V or 36W in 24V

Detection Distance: 2m

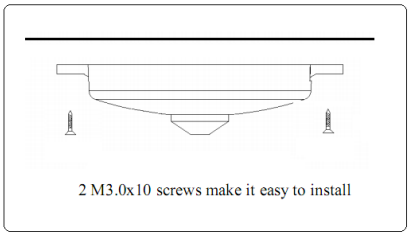
Detection Range: 120°

Delay time: Standard is 30 seconds (can design in 1s ~20 minutes as customers' request)
Ambient light: <10 lux daylight .

Drawing:



Installation information:



Functional information：

1. Automatic detection: when people enter the active zone, infrared ray detector will output 12V or 24V and the light turns on.
2. Delay function: when people leave the active zone or people stay still, the light will turn off after 30 seconds.
3. Continuous detection: when people have activities during the period of delay time, the detector works and the light is always on.
4. Light sensitive control: The PIR Motion Sensor has two sensitive parts, one is infrared ray sensitive part, and the other is light sensitive parts. So it works when people enter in the active zone in the daylight luminance is less than 10 lux.

7. AC02W 4/8 WAYSPLITTER.

You can use AC02W 4/8 WAYSPLITTER when one power supply needs to driver many pieces of LED LIGHTS.

