

## MultiDim-15V-0 (Product No.:203200031101)

### Technical Specs:

This is a multi-functional LED dimmer, dimming mode, dimming curve, min brightness level all can be selected by dip switch.



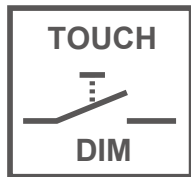
<b>Model</b>	MultiDim-15V-0	
<b>Input</b>	Voltage	DC12/24V
<b>Output</b>	Current	15A
	Voltage (VDC)/Power(W)	12VDC/180W      24VDC/360W
<b>Function</b>	Dimming Type	0-10V/1-0V signal
	Dimming Range	0.1%-100% Dimming to off
<b>Protection</b>	Short Circuit	after fault removed Close output ,the output current recovers automatically
	Over Current	Shut down the output, recovers automatically when temp. back to normal.
	Over Temperature	Shut down the output, recovers automatically when temp. back to normal.
<b>Others</b>	Working Temp.	-35°C~50°C
	Storage Temp., Humidity	-40°C~85°C, 20-90%RH
	tc	90°C
	Material	ABS+PC
	IP Rating	IP20
	Lifetime	50,000h@tc:80°C
	Warranty Condition	5 years
	Switch Cycle	>100,000 tims
	Packing(weight)	Net weight: 93g±5%/PCS; 64PCS/Cartron;6.65kg±5%/Cartron; Cartron Size: 368*250*250mm(L*W*H)
Dimension	167*52*24mm (L*W*H)	

### Function Select Table

Analog Dim/Touch Dim Switch Table

Function Switch			Analog DIM Selected	Touch DIM Select
OFF	NO	6	OFF	NO

Analog dim mode is selected by Switch bit 6 to off status, and if switch bit 6 to on status Touch Dimfunction will be selected. Touch dimmer is only a switch, signal isn't have polarity in touch dim function.

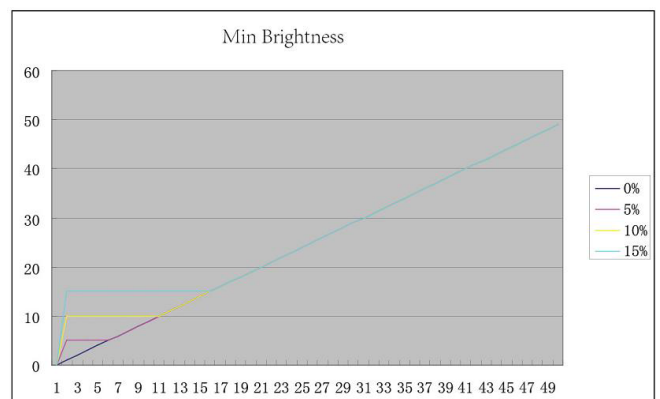


Note: Touch Dim function just need connect Touch dimmer two lines to signal+ and signal-! Please don't connect L/N line, or this dimmer will be damage!

### Min Brightness Switch Table

Function Switch			0%	5%	10%	15%
OFF	NO	4				
		5				



Min brightness can be set in this dimmer from 0-15%. This function is available in both analog function and touch dim function. This feature is very effective to solve the led flicker issue in low-end. If led flicker, please up-regulate the min brightness, and the Dimming curves are as below:



### Anti-interference Switch Table

Function Switch			Normal	Hysteresis
OFF	ON	6	 OFF	 NO

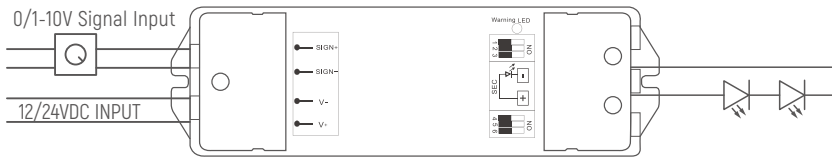
### Dimming Curve Switch Table

Function Switch			Linear Dimming	Logarithmic Dimming
OFF	ON	6	 OFF	 NO

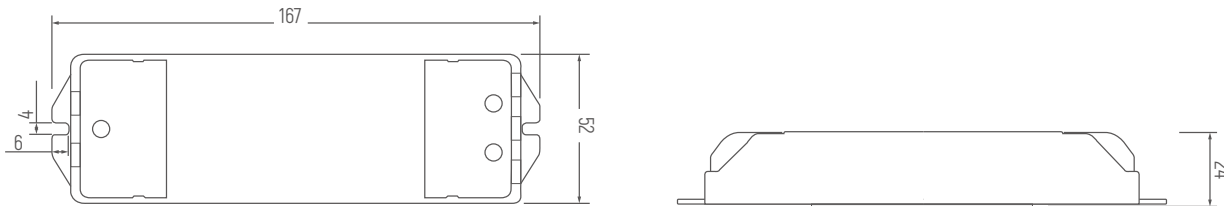
### Dimming Curve Switch Table

Function Switch			0-10V Dimming	1-10V Dimming
OFF	ON	6	 OFF	 NO

### Analog dimmer Function Description Wire connection in Analog dimmer mode

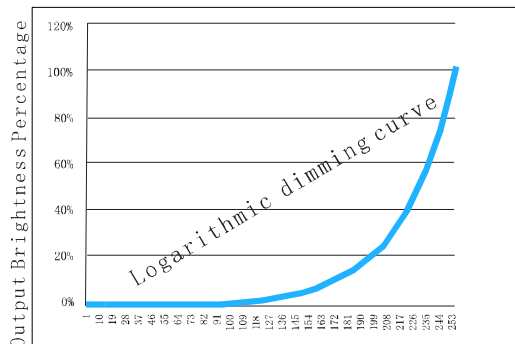
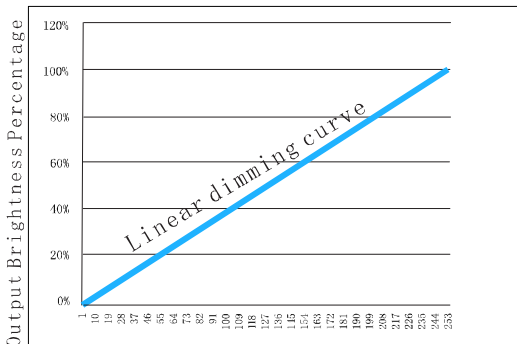


### Dimension(mm)



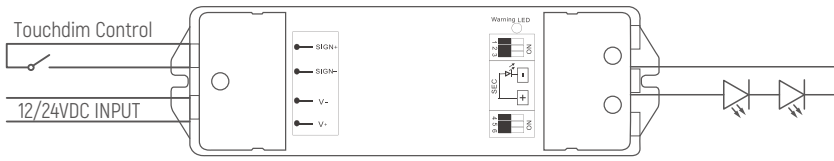
### Linear and Logarithmic Dimming Curves

Dimming curves are as below:



Note: Logarithmic dimming curve use gamma correction to make the Luminance smoother, due to the characteristics of the diode

## TouchDim function Description Wire connection in TouchDim mode



- 1) Short press the Touch DIM switch (<0.5s) to control the lamp on or off.
- 2) Long press the Touch DIM switch (>0.5s) to dim the brightness of light;  
The Dimming direction will inverse each time after long pressing switch.
- 3) When the light power off, long press the Touch DIM switch can turn on the light and adjust it brightness according to the dimming direction.
- 4) The brightness adjustment range is 5%-100%, and the light can be turned off through short pressing.
- 5) Power off memory function, the power-down state before will be maintained when power on again.

## Exception Handles

Malfunction	Causation	Settle
Can't Dimming	Dimming mode selected error Signal isn't connect Signal type selected	Check switch bit 6 Status Check connection Check signal is active or passive signal and switch status is right or not
Warning LED On	Protection is action, Dimmer may be short, overload or temperature too high	Check output is short or not, whether load and temperature is out of range
LED Flicker		Up-regulate the min brightness

## Safety warnings

1. Please don't install this dimmer in lightening, intense magnetic and high-voltage fields.
2. To reduce the risk of component damage and fire caused by short circuit, make sure correct connection
3. Always be sure to mount this unit in an area that will allow proper ventilation to ensure a fitting temperature.
4. Check if the voltage and power adapter suit for the dimmer
5. Don't connect cables with power on, make sure a correct connection and no short circuit checked with instrument before power on.
6. Please don't open dimmer cover and operate if problems occur. The manual is only suitable for this model; any update is subject to change without prior notice.

## MultiDim-15V-0 (Product No.:203200031101)

### 技术参数

这是一个多功能的LED调光器，可通过拨码开关选择调光模式，调光曲线和最小亮度值。



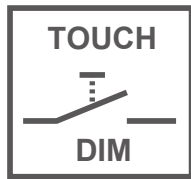
型号	MultiDim-15V-0	
输入	电压	DC12/24V
输出	电流	15A
	电压 (VDC) /功率 (W)	12VDC/180W      24VDC/360W
功能	调光类型	0-10V/1-0V信号
	调光范围	0.1%-100% Dimming to off
保护	短路保护	故障排除后 自动恢复
	过流保护	故障排除后 闭合输出，输出电流自动恢复
	过温保护	关闭输出，当温度升高时自动恢复。恢复正常
	工作温度	-35°C~50°C
其他	存储温度	-40°C~85°C, 20-90%RH
	工作最高温度	90°C
	材质	ABS+PC
	防护等级	IP20
	寿命	50,000h@tc:80°C
	质保	5 年
	开关次数	>100,000
	包装 (重量)	净重: 93g±5%/件; 64件/箱; 6.65kg±5%/箱; 纸箱尺寸: 368*250*250mm (长*宽*高)
尺寸	167*52*24mm (长*宽*高)	

### 功能选择表

#### 模拟信号调光/Touch Dim 选择表

功能开关			模拟信号调光	Touch DIM Select
关	开	6	关	开

当开关位6为关闭状态时，为模拟信号调光模式，当开关位6为打开状态时，为Touch Dim 功能。  
触摸调光器只是一个开关，使用Touch Dim功能时，信号没有极性。

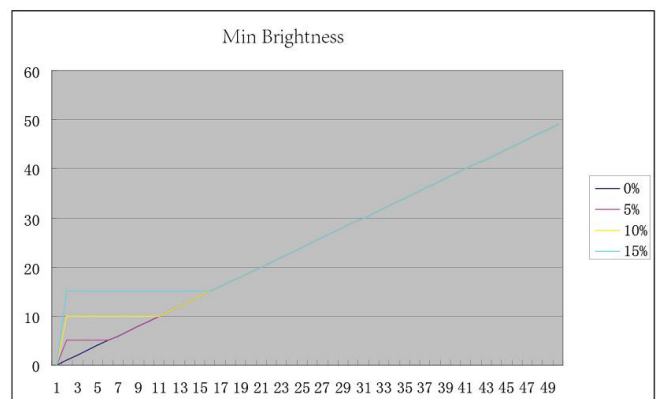


注意: Touch Dim功能时，只需将两线连接到信号正和信号负！请不要将线接到L/N，否则这个调光器会被损坏！

### 最小亮度

功能开关		0%	5%	10%	15%
ON	NO				
	NC				

调光器的最小亮度可以设置为0-15%. 这个功能在模拟信号调光和Touch Dim 功能中都可以使用。这个特性非常有效的解决了LED在低端闪烁的问题。如果LED闪烁，请上调最小亮度值，调光曲线如下图所示：



抗干扰性开关表

功能开关			正常	迟滞
关	开	3	 OFF	 NO

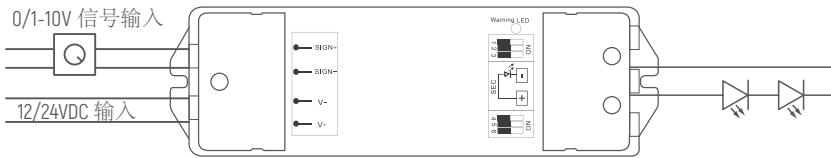
调光曲线选择表

功能开关			线性调光	对数调光
关	开	2	 OFF	 NO

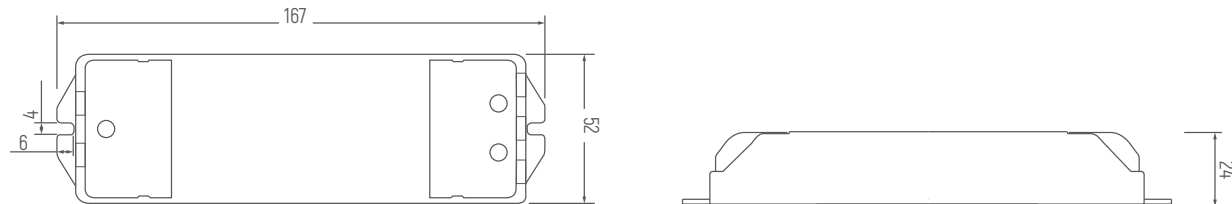
调光模式选择表

功能开关			0-10V 调光	1-10V 调光
关	开	1	 OFF	 NO

模拟信号调光模式接线示意图

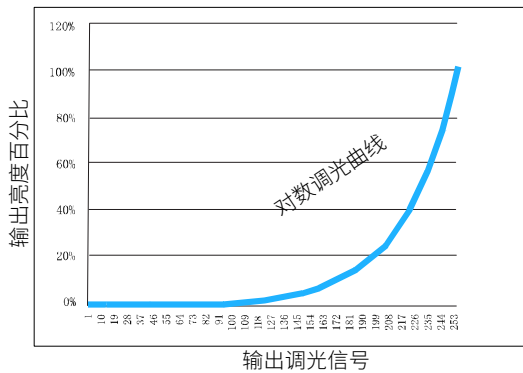
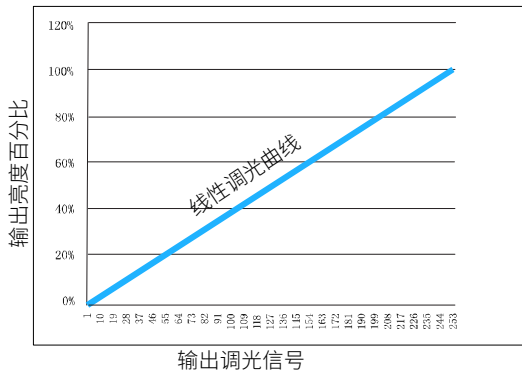


尺寸 (mm)



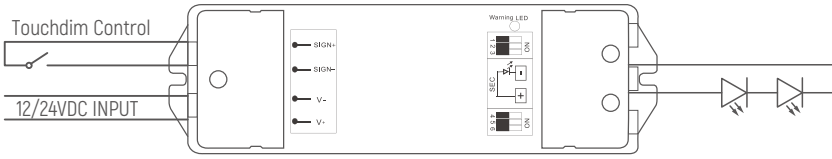
线性和对数调光曲线

调光曲线如下：



注意：由于二极管的特性，对数调光曲线采用Gamma校准，使得亮度变化更加平滑。

**Touch Dim 模式接线示意图**



1. 短时间按Touch DIM 开关 (<0.5秒) 进行灯的亮暗控制。
2. 长时间按Touch DIM 开关 (>0.5秒) 进行灯具的亮度调节，调光的亮暗方向将随着每次按压开关变化。
3. 当灯具处于关闭状态，长时间按Touch DIM开关可以开启灯具并按照变化方向进行亮度的调节。
4. 亮度调节范围为5%-100%，短按可以关闭灯具。
5. 具有断电记忆功能，重新上电将恢复到上一次断电的状态。

**异常处理**

故障	原因	Settle
不能调光	调光模式选择错误 没有连接信号 信号种类选择错误	检查开关位6的状态 检查线路 检查信号是有源还是无源，以及 与开关状态是否一致。
警示灯亮	保护功能启动，调光器可能短路 过载或者温度太高	检查输出是否短路，温度和负载 是否超出范围。
LED灯闪烁		上调最小亮度值

**注意事项**

1. 请不要将调光器安装在有闪电、强磁场和高压的地方。
2. 为减少由于短路导致的元件损坏和火灾的危险，请正确接线。
3. 请务必将产品安装在一个允许适当通风的地方，确保提供一个合适的温度。
4. 检查电压和电源适配器是否符合调光器
5. 在上电之前请检查并确保接线正确且没有短路
6. 如果出现问题请不要拆开调光器私自维修。