

0/1 - 10V LED DIMMING DRIVER

| MODEL NO: 110VPUSHDIM



IP20

0-10
Dimming

CE

CE
EMC

CE
LVD

RoHS

TECHNICAL INFORMATION


Specifications


Input & Output	Input Voltage	12 - 36V DC
	Input Current	12.5A
	Output Voltage	12 - 36V DC
	Output Current	1 Channel, 12A
	Output Power	144 - 432W
	Output Type	Constant Voltage
Dimming Data	Input Signal	0/1 - 10V + Push Dim
	Dimming Range	0 - 100%
	Dimming Curve	Logarithmic
	PWM Frequency	500Hz
Environment	Operational Temp.	ta: -30°C to +55°C
	Case Temp.	tc: +85°C
	IP Rating	IP20
Safety & EMC	EMC Standard (EMC)	EN301 489, EN62479
	Safety Standard (LVD)	EN60950
	Certification	CE, EMC, LVD
Weight	Net Weight	0.100kg
	Gross Weight	0.124kg
Warranty & Protection	Warranty	5 Years
	Protection	Reverse Polarity



ULTRA LEDs

 ultraleds.co.uk

 0800 088 3300

 orders@ultraleds.co.uk

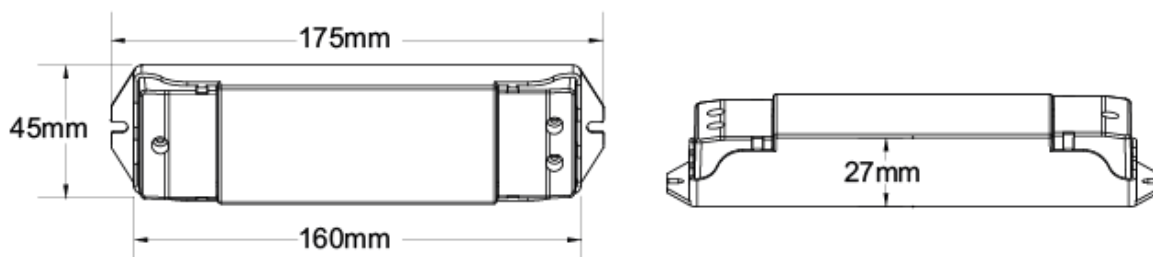
FEATURES & BENEFITS

- 1 Channel 0/1 - 10V LED dimming driver with psh-dim function
- 1 Channel 0/1 - 10V input, 1 Channel PWM constant voltage output
- 0-100% dimming range via logarithmic characteristic can be very comfortable for human eyes
- Compatible with active or passive 0-10V, 1-10V dimmer, can solve the fluorescent lamp dimming system compatible with LED lighting

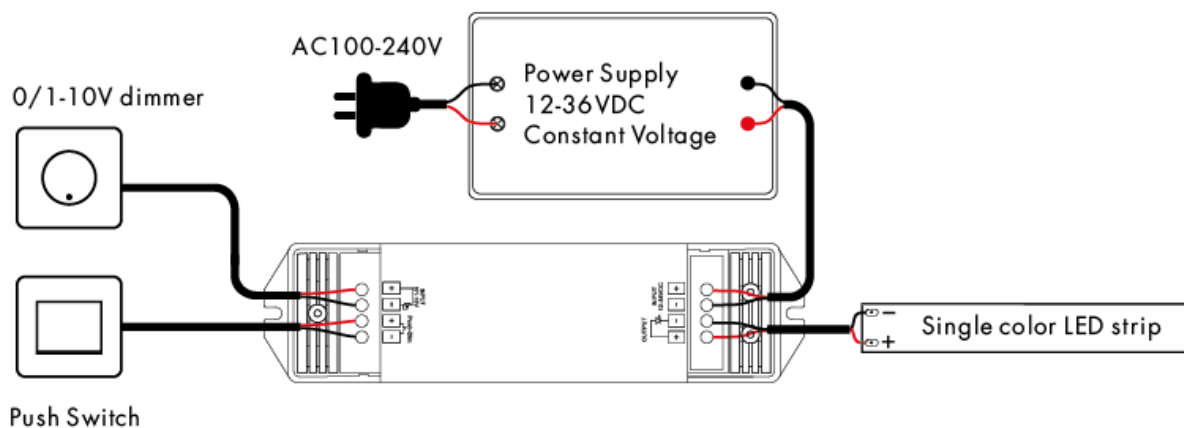
MECHANICAL DIAGRAM



DIMENSIONS



WIRING DIAGRAM



Note:

- The 0/1-10V input is operable via commercially available simple rotary wall switches designed for 0/1-10V dimming equipment or from dedicated system central dimming controllers.
- Compliant with 0-10V, 1-10V, 10V PWM, RX(4 in 1).
- We recommend the number of LED drivers connected to 0/1-10V dimmer does not exceed 5 pieces, The maximum length of the wires from dimmer to LED driver should be no more than 1.5 meters.
- If the LED driver be used with Push-Dim interface prior to using the 0/1-10V interface, the 0/1-10 V signal should change over 10% to return 0/1-10 V control.

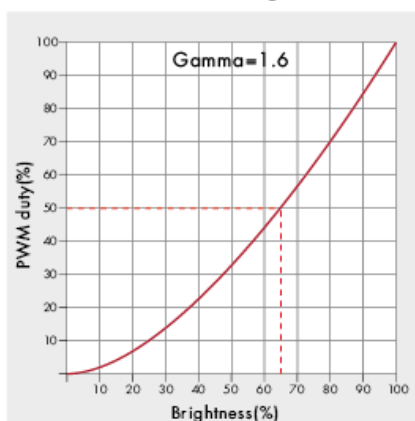
PUSH DIM FUNCTION

The provided Push-Dim interface allows for a simple dimming method using commercially available non-latching (momentary) wall switches.

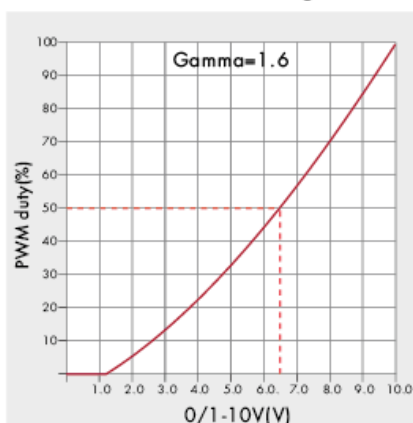
- **Short press:**
Turn on or off light.
- **Long press (1-6s):**
Press and hold to step-less dimming,
With every other long press, the light level goes to the opposite direction.
- **Dimming memory:**
Light returns to the previous dimming level when switched off and on again, even at power failure.
- **Synchronization:**
If more than one controller are connected to the same push switch, do a long press for more than 10s, then the system is synchronized and all lights in the group dim up to 100%.
This means there is no need for any additional synchrony wire in larger installations.
We recommend the number of controllers connected to a push switch does not exceed 25 pieces,
The maximum length of the wires from push to controller should be no more than 20 meters.

DIMMING CURVE

Push dimming



0/1-10V dimming



MALFUNCTIONS & TROUBLESHOOTING

Malfunctions	Causes	Troubleshooting
No light	1. No power. 2. Wrong connection or insecure.	1. Check the power. 2. Check the connection.
Uneven intensity between front and rear, with voltage drop	1. Output cable is too long. 2. Wire diameter is too small. 3. Overload beyond power supply capability. 4. Overload beyond controller capability.	1. Reduce cable or loop supply. 2. Change wider wire. 3. Replace higher power supply. 4. Add power repeater.