

# DIMMER

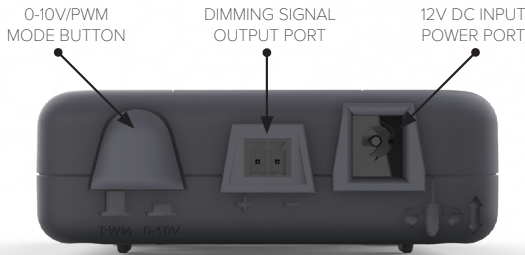
# FLUENCE

BY **OSRAM**

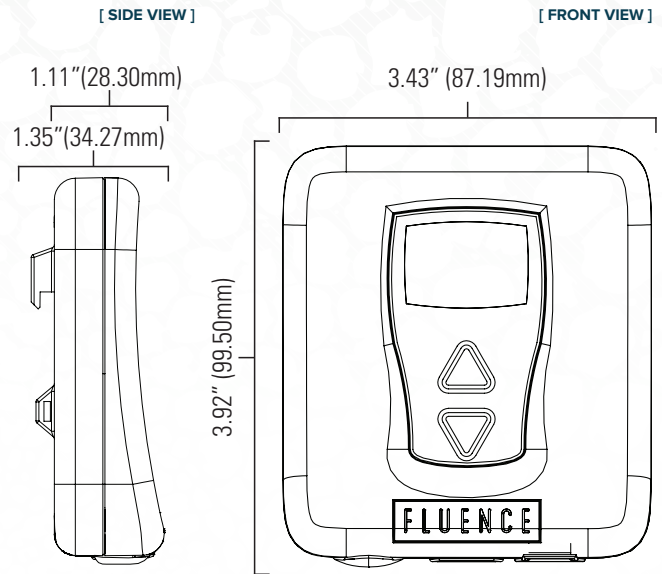


The **Fluence Dimmer** is a reliable, user-friendly dimmer that controls the light intensity from 0-100% of Fluence light fixtures. This device allows growers to control the light intensity of their Fluence light fixtures via an easy-to-use up/down arrow function, and clearly shows the user their light output intensity percentage via a digital display.

This dimmer is meant to control the overall light intensity and maintain a set point of your Fluence LED light fixtures. It is not a relay or digital schedule timer to control photoperiod. Please contact Fluence to find out more about available photoperiod schedule control solutions.



## DIMENSIONS



## SPECIFICATIONS

Number of Channels	1
Signal Type	0-10V or PWM
Signal Strength	Source/Sink 40 mA DC
Max # of Fixtures Controlled	25 units, or 80% max loading (32 mA) recommended
Max Signal Wire Length	200 feet max   61 meters max
10V Output Control	0-10V ± 0.1V
PWM Output Control	0-100% ± 1%
Adapter AC Input Power	120VAC   60 Hz
Dimmer DC Input Power	+12 VDC at 0.5A, sourced Wall Power
Dimensions   Weight	3.92" L x 3.43" W x 1.35" H   5 oz 99.50mm L x 87.19mm W x 34.27mm H   142 g
Warranty	1-year
Light Control	0%-100% Light Intensity
Relative Humidity	Less than 80%+
User Interface	Two Push Buttons

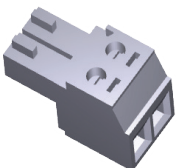
*Please refer to the user manual for complete operation and application information.*

## INCLUDED IN THE BOX



### AC Power Adapter

U.S. Plug AC Power Adapter provides 12VDC power for the Whisper dimmer. 120V wall outlet or power strip required.



### Signal Wire Connectors

Two 2-position terminal connectors are included to connect the dimming signal wires. Use one and keep the second as a spare.



Contact **FLUENCE**   
[support@fluencebioengineering.com](mailto:support@fluencebioengineering.com)   
[www.fluence.science](http://www.fluence.science) 

ORDERING CODE LEGEND							
DESCRIPTION	Product	Current	Region	-	Part NO.	-	Packing QTY.
	<b>A</b> - Accessory <b>C</b> - Cable	<b>DM</b> - DC Dimming	<b>G</b> - Global <b>A</b> - Americas <b>E</b> - Europe	-	Part NO.	-	<b>10</b> <b>05</b>
EXAMPLE	<b>ADMA</b>			-	<b>70893</b>	-	<b>10</b>

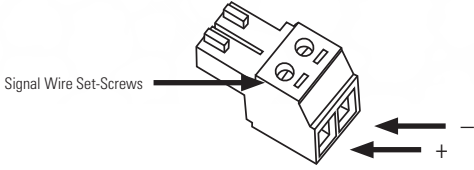
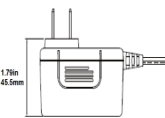
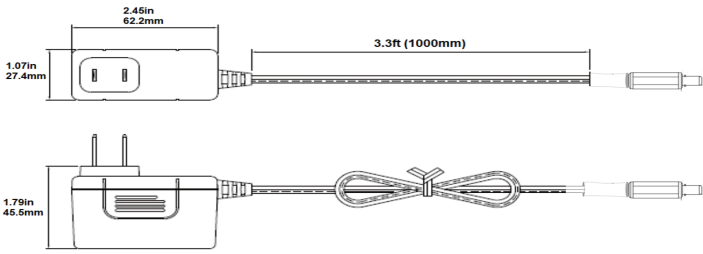
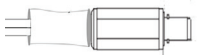
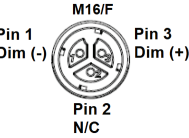
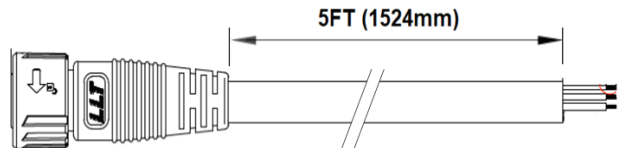
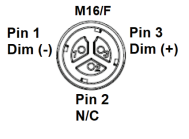
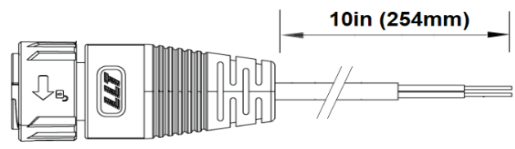
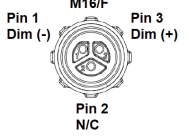
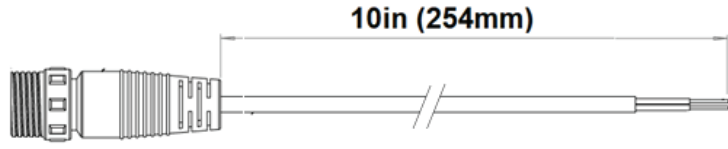
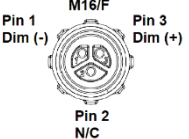
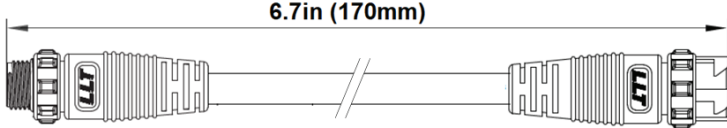
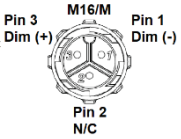
## DIMMER AND ACCESSORIES - ORDERING INFORMATION

Ordering Code	Description	Cable Length	Connector End 1	Connector End 2	Cord Type
<b>C-W-U</b>	Dimmer Includes 2 Signal Wire Connectors and AC/DC Power Adapter	N/A	N/A	N/A	N/A
<b>ADMA-70983-10</b>	Signal Wire Connector 2-position Terminal Block	N/A	N/A	N/A	N/A
<b>ADMA-10342-10</b>	AC/DC power adapter 120VAC/12VDC, 12W, 1A	3.3 ft 1000 mm	NEMA 1-15P	2.0 mm Locking Barrel	UL2468
<b>CDMA-71388-10</b>	DC Dimming Signal Cable Dimmer to Power Supply	5.0 ft 1524 mm	Pushlock Female M16, 3-pin	Pigtail	UL 22190 2x18AWG+Drain Mylar Jacket VW-1
<b>CDMA-70972-10</b>	DC Dimming Signal Cable Dimmer to Power Supply	10.0 in 254 mm	Pushlock Female M16, 3-pin	Pigtail	UL 2464 2x18AWG Extruded Jacket, VW-1
<b>CDMA-70441-10</b>	DC Dimming Signal Cable Dimmer to Power Supply	10.0 in 254 mm	Threaded Female M16, 3-pin	Pigtail	UL 2464 2x22AWG Extruded Jacket VW-1
<b>CDMA-71370-10</b>	Connector Adapter Pushlock to Threaded	6.7 in 170 mm	Threaded Female M16, 3-pin	Pushlock Male M16, 3-pin	AW, UL 22190 2x18AWG, Drain Mylar, VW-1, CE

## DIMMER AND ACCESSORIES - PACKAGING INFORMATION

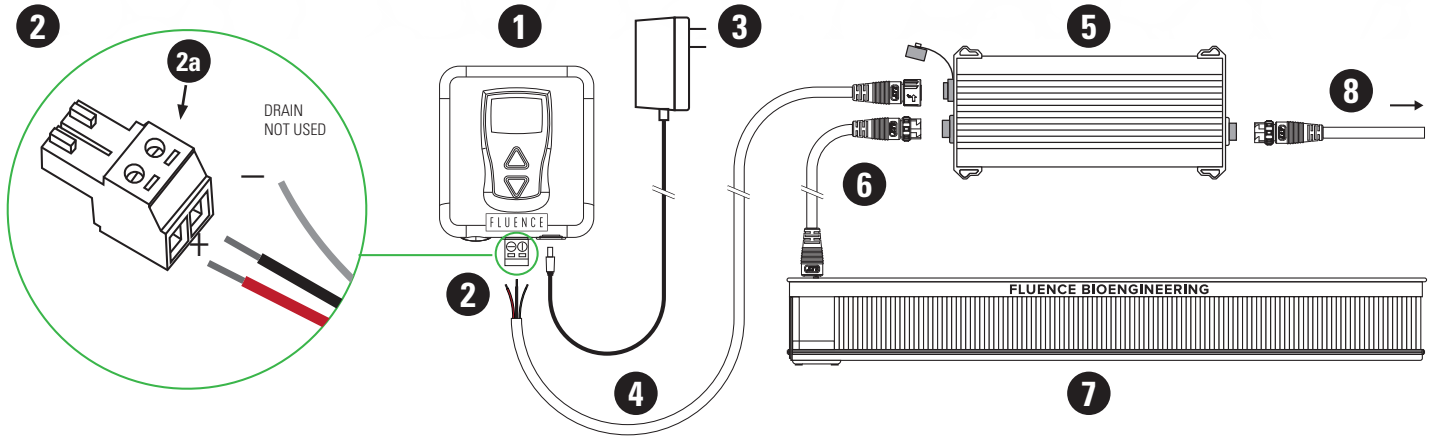
Ordering Code	Package Qty	Weight	Length	Height	Width	HTS Tariff Code
<b>C-W-U</b>	1	1.0 lbs 0.46 Kg	8.0" 203 mm	3.5" 89 mm	7.0" 178 mm	8537.10.9160
<b>ADMA-70983-10</b>	10	0.5 lbs 0.23 Kg	7.3" 185 mm	N/A	12.0" 305 mm	8536.69.4040
<b>ADMA-10342-10</b>		2.0 lbs 0.9 Kg	7.3" 185 mm	N/A	12.0" 305 mm	8504.40.9510
<b>CDMA-71388-10</b>		3.0 lbs 1.4 Kg	15.5" 394 mm	5.0" 127 mm	15.5" 394 mm	8536.69.8000
<b>CDMA-70972-10</b>		1.3 lbs 0.59 Kg	10.5" 267 mm	1.0" 25 mm	16.0" 406 mm	
<b>CDMA-70441-10</b>		1.3 lbs 0.59 Kg				
<b>CDMA-71370-10</b>		1.6 lbs 0.73 Kg				

## DIMMER AND ACCESSORIES - MECHANICAL DRAWINGS

Ordering Code	Pin Config. End 1	Mechanical Drawing	Pin Config. End 2
<b>ADMA-70983-10</b>	N/A		N/A
<b>ADMA-10342-10</b>			
<b>CDMA-71388-10</b>			Red = Dim (+) Black = Dim (-) Bare Wire = Drain
<b>CDMA-70972-10</b>			Purple = Dim (+) Gray = Dim (-)
<b>CDMA-70441-10</b>			Purple = Dim (+) Gray = Dim (-)
<b>CDMA-71370-10</b>			

### Dimmer with Single Light Fixture

Fluence DC Dimming Cable



### COMPONENTS

- 1 Dimmer C-W-U
- 2 Dimming Signal Wire Connector (ADMA-70983-10)
  - 2a Signal Wire Set-Screws
- 3 120 VAC Power Adapter (ADMA-10342-10)
- 4 DC Dimming Signal Cable (CDMA-71388-10)
- 5 Power Supply for Light Fixture
- 6 DC Power Cable to Light Fixture
- 7 Light Fixture
- 8 AC Power Cable to Power Supply

### SINGLE LIGHT FIXTURE

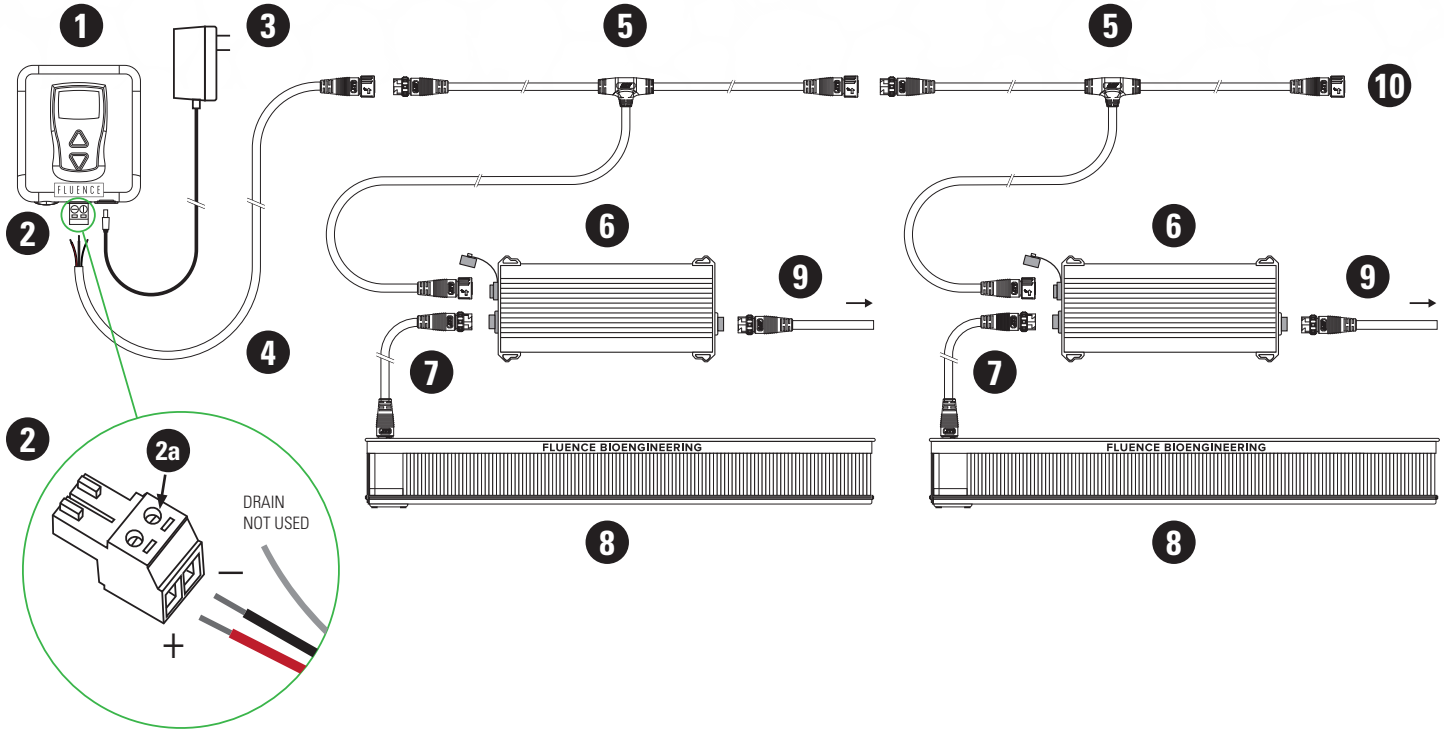
Maximum Quantity Connected Light Fixtures	Maximum Distance Dimmer to Light Fixture
1	5 FT 1.5 m

### NOTES

Dimming threaded cable adapter (CDMA-71370-10) or threaded Dimming Signal Cable (CDMA-70441-10) is required for RAZR, RAY, SPYDRx, and SPYDRx PLUS.

### Dimmer with Multiple Light Fixtures

Fluence DC FLeX Dimming Wiring System



#### COMPONENTS

- 1 Dimmer C-W-U
- 2 Dimming Signal Wire Connector (ADMA-70983-10)
  - 2a Signal Wire Set-Screws
- 3 120 VAC Power Adapter (ADMA-10342-10)
- 4 DC Flex Pigtail Trunk Extension Cable
  - 5 FT (CDMA-71389-10) or
  - 75 FT (CDMA-71366-01)
- 5 DC Flex T-Connector Cable to Light Fixture
  - 5 FT (CDMA-71369-10) or
  - 10 FT (CDMA-71368-05)
- 6 Power Supply to Light Fixture
- 7 DC Power Cable to Light Fixture
- 8 Light Fixture
- 9 AC Power Cable to Power Supply
- 10 DC Flex T-Connector Cable to next Light Fixture
  - 5 FT (CDMA-71369-10) or
  - 10 FT (CDMA-71368-05) or
  - terminate with Dust Cap (CDMA-71375-10)

#### MULTIPLE LIGHT FIXTURES

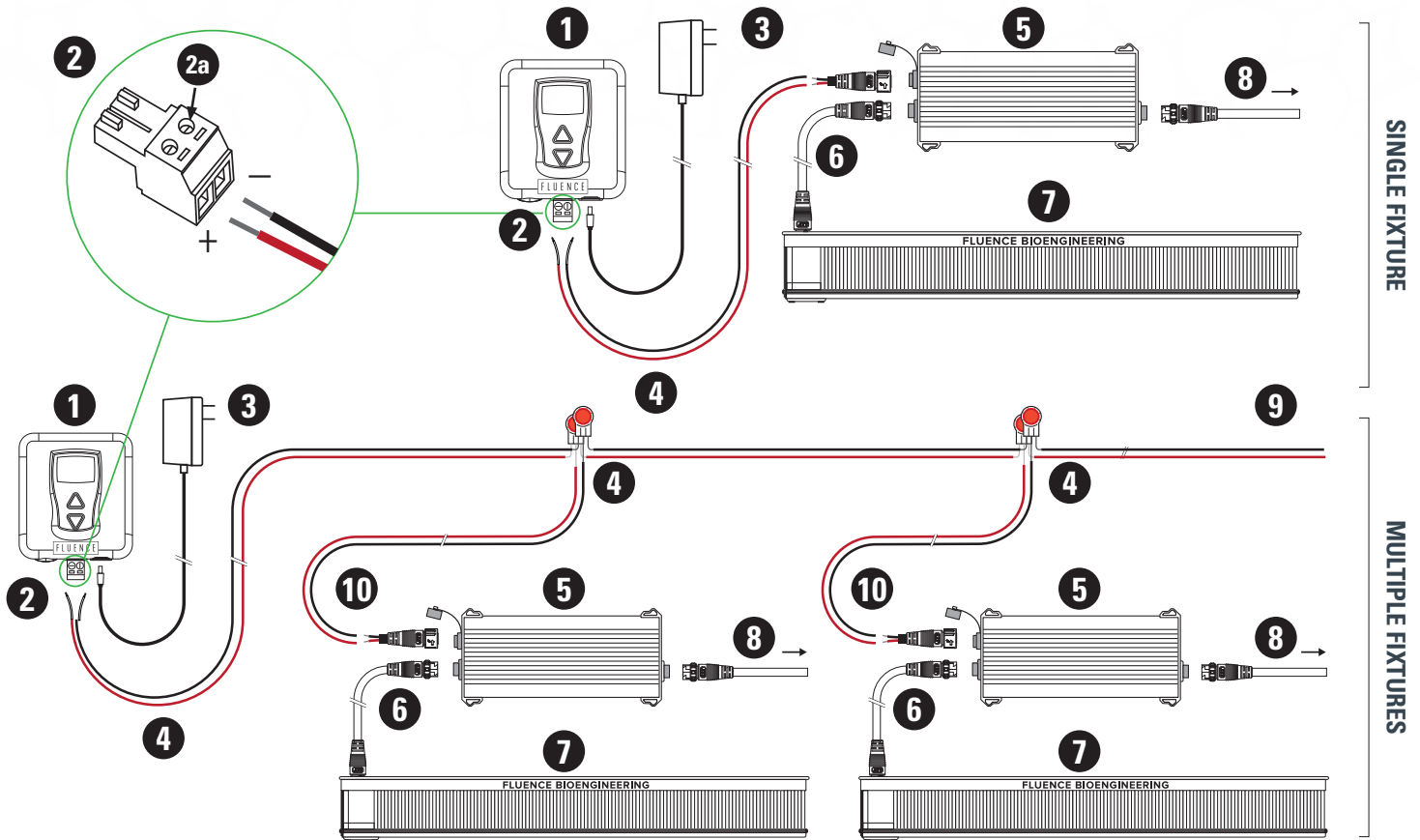
Maximum Quantity Connected Light Fixtures	Maximum Distance First to Last Light Fixture
25	200 FT 61m

#### NOTES

A. Threaded Connector Adapter (CDMA-71370-10) is required for RAZR, RAY, SPYDRx, and SPYDRx PLUS.

B. Please refer to the **DC Flex Dimming Wiring System Specification Sheet** for wiring details.

### Dimmer with Third Party Dimming Cables



#### COMPONENTS

- 1 Dimmer C-W-U
- 2 Dimming Signal Wire Connector (ADMA-70983-10)
  - 2a Signal Wire Set-Screws
- 3 120 VAC Power Adapter (ADMA-10342-10)
- 4 2-Conductor Dimming Cable and Wire Splice Connectors (third party)
- 5 Power Supply for Light Fixture
- 6 DC Power Cable to Light Fixture
- 7 Light Fixture
- 8 AC Power Cable to Power Supply
- 9 Dimming cable to next Light Fixture or terminate
- 10 DC Dimming Signal Cable
  - Pushlock connector (CDMA-70972-10) or
  - Threaded connector (CDMA-70441-10)

Min. Wire Gauge	18 AWG 0.75 mm <sup>2</sup>
Conductor QTY.	2
Recommended Cable	Belden, PN: 5340F1
Recommended Wire Splice Connector	3M PN: 599X926. Scotchlok IDC UR2 Connectors 19-26 AWG
Max QTY. Connected Light Fixtures	25
Max Distance First to Last Light Fixture	200 FT 61 m

#### NOTES

Maintain the polarity at all dimming connections, (+) wire to (+) wire and (-) wire to (-) wire.