



## TECHNICAL SPECIFICATIONS

<b>Class</b>	2
<b>Rating</b>	Indoor
<b>Listing</b>	UL 8750, UL 1310 (Meets IEEE Standard 1789-2015)
<b>Ingress Protection</b>	IP64
<b>Inrush Current</b>	2.49 Amps, 55µs @ 120V AC, 60 Hz 3.57 Amps, 47µs @ 277V AC, 60 Hz
<b>Operating Temperature</b>	-40°C to +55°C
<b>TCASE</b>	90°C Maximum
<b>RoHS</b>	Yes
<b>Max THD</b>	< 20%
<b>Power Factor</b>	> 0.9
<b>Efficiency</b>	> 80%
<b>NEMA Rating</b>	Not Rated
<b>Protections</b>	Automatic Reset Short Circuit Protection Overload Protection Thermal Protection

## GENERAL FEATURES

<b>Applications</b>	Low Voltage Lighting
<b>Construction</b>	Powder Coated Aluminum Enclosure
<b>Finish</b>	Black
<b>Knockouts</b>	Four 1/2 Knockouts
<b>Weight</b>	2.27 lbs
<b>Mounting</b>	Mounting Feet

## DIMMING

<b>Dimming Protocol</b>	0-10V
<b>Dimming Range</b>	100% - 1%
<b>Dimming Curve</b>	Linear

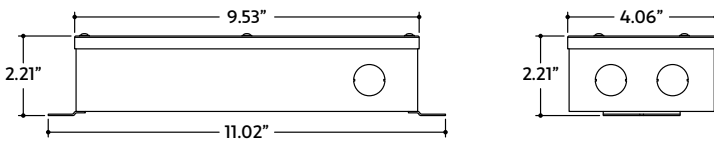
## INPUT

<b>Input Voltage</b>	Universal Voltage: 120-277VAC
<b>Input Frequency</b>	50 / 60 Hz
<b>Max Input Current</b>	0.33 Amps @ 120V AC, 60 Hz, Fully Loaded 0.15 Amps @ 277V AC, 60 Hz, Fully Loaded

## OUTPUT

<b>Output Voltage</b>	24VDC
<b>Output Power</b>	30 Watts
<b>Max Output Current</b>	3.125 Amps

## ENCLOSURE DIMENSIONS



## SPECIFY PRODUCT CODE | CHOOSE FROM DROP DOWNS

Series	Primary Voltage	Secondary Voltage	Dimming	Light Shape	Listing
DRV30-E-BIOS	UNV	24VDC	10V		DRY
30 Watt Driver (DRV30-E-BIOS)	Universal Voltage: 120-277VAC (UNV)	24 Volts DC (24VDC)	0-10V: 100% - 1% (10V)	BS BD BT	Indoor (DRY)

### WIRING CONNECTIONS

- Always refer to wiring diagrams before making wiring connections. If there is a discrepancy in the information, contact technical support.
- Remove knockouts as needed and install conduit or strain relief fittings (by others) appropriate for the installation environment. Fittings must be sized for the knockout size.
- For outdoor applications, knockouts must be facing towards bottom side and away from standing water.
- Only use UL approved wire nuts to make wiring connections.

#### Input Connection

Bring hot and neutral wires into the enclosure through strain relief fittings and connect to driver input lead wires using wire nuts. Refer to wiring diagram for details.

#### Output Connection

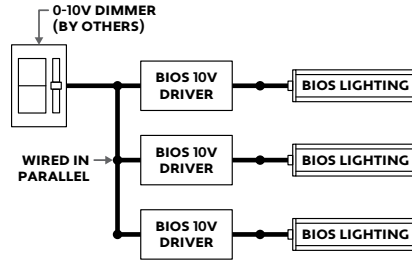
Bring LED lighting lead wires into the enclosure through strain relief fitting and connect to driver output lead wires using wire nuts. Refer to wiring diagram for details.

#### Grounding

The driver is grounded to the enclosure. The enclosure should be grounded in accordance with NEC and local code.

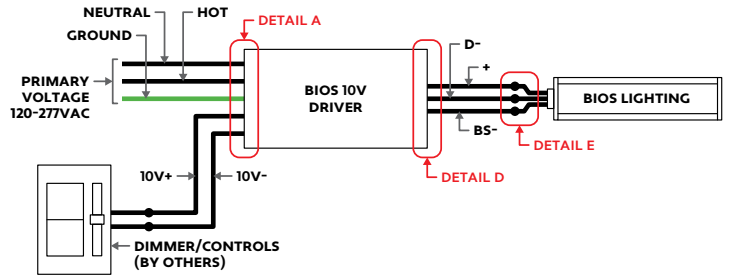
### 0-10V LAYOUT & WIRING

#### Typical Layout



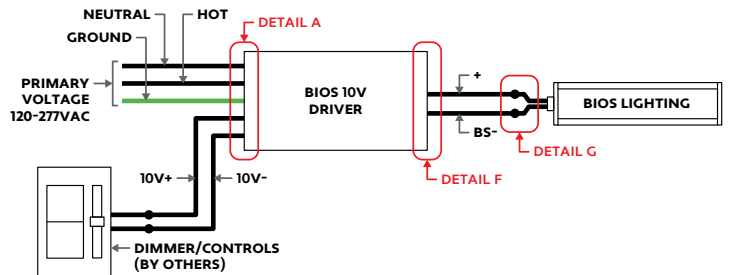
#### Wiring Diagram

Biological Dynamic (BD) / Biological Tunable (BT)



#### Wiring Diagram

Biological Static (BS)



### MAXIMUM RUN BASED ON 80% LOAD OF ELECTRONIC DRIVER MAXIMUM WATTAGE

Driver Wattage	80% Load	1.5W Max Run	2W Max Run	2.5W Max Run	3W Max Run	3.6W Max Run	4W Max Run	4.5W Max Run	5W Max Run	5.5W Max Run	6W Max Run	6.5W Max Run
30	24W	16'	12'	9.6'	8'	6.6'	6'	5.3'	4.8'	4.36'	4'	3.69'

**Note:** Maximum Run refers to the total length of lighting that can be connected to a single driver. Maximum Runs for individual products still apply.



### MOUNTING

- When mounting drivers inside a larger enclosure, such as a panel box, it is recommended to mount drivers with 10" of free flow air space for adequate ventilation. If the 10" spacing criteria cannot be met, ensure that drivers will not exceed the maximum operating temperature.
  - Drivers must be mounted at least 12" away from the ground
  - Drivers must be vertically mounted with knockouts facing towards ground
  - Cover gasket must be installed for wet rated drivers
  - All cover screws must be properly secured for wet rated drivers
  - Never mount the driver on or above heat radiant objects
  - The maximum ambient temperature should not exceed +55°C (131°F)
  - There are two mounting feet at each end of enclosure.
- Mount enclosure to surface using appropriate screws (by others) for surface material and weight of driver
- Do not mount the driver in locations where it will be submerged in water or exposed to flowing water

### MOUNTING INSIDE AN ENCLOSURE

- Only mount drivers inside enclosures rated for your application.
- Always ground drivers to enclosure.
- Do not mount drivers without an enclosure.
- Use enclosure knockouts and water-tight conduit fittings if applicable.

### MAXIMUM WIRING DISTANCE OF DRIVER TO LIGHTING

The maximum wiring distance of driver to LED Lighting refers to the wire used between the driver and first LED of the luminaire. If the wire gauge is inadequate for the wiring distance, the luminaire will receive decreased voltage, insufficient to power the LEDs. Refer to the table to determine appropriate wiring distances based on wire gauge and the LED load.



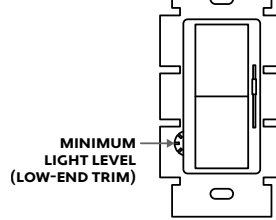
### DRIVER CARE

- Do not submerge drivers in any liquid
- Do not leave any exposed wires
- Do not cover driver without proper ventilation
- Do not install damaged driver
- Do not exceed maximum load

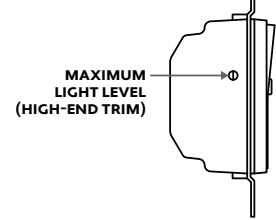
### DIMMER TRIM VALUES

- Set dimmer trim value as needed to prevent flickering and irregular dimming behaviors.
- Review dimmer specifications for trim value adjustment.
- Dimmers by others.

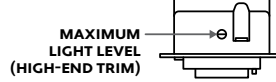
Front



Side



Bottom



### MAXIMUM WIRE LENGTH TO PREVENT EXCESS VOLTAGE DROP

Wire Size	Load Wattage (W)		
	15	24	30
20 AWG	78'	49'	39'
18 AWG	125'	78'	62'
16 AWG	199'	124'	99'
14 AWG	316'	197'	158'
12 AWG	503'	314'	251'
10 AWG	800'	500'	400'
8 AWG	1273'	795'	636'