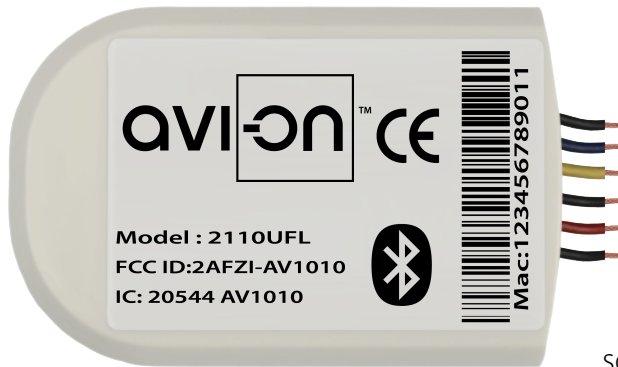


# Fixture Adapters

## Easy, quick integration by Avi-on



Avi-on Fixture Adapters are packaged DC-powered adapters that enable Bluetooth® wireless lighting controls for on/off, dimming and tunable white functions. The compact design incorporates the antenna and all controls needed to interface with the Avi-on App, providing a ready Powered by Avi-on™ platform that supports grouping, scheduling, timers and scene management.

### Applications

- Office Lighting
- Warehouse Lighting
- Area Lighting
- Retail Lighting
- Outdoor Lighting
- Signage
- Residential Lighting
- Architectural Lighting

### Integrations

- Sensors
- Scene Controllers
- Dimmers and Switches
- Wi-Fi with RAB (Alexa Compatible)
- Avi-on app and Ecosystem

## Fixture Adapter Features

### 0-10V Dimming

All Fixture Adapters provide 0-10V output fixture controls, with dim to off capability.

### Tunable White

All dual channel Fixture Adapters provide a second 0-10V output which may be used for tunable white applications, allowing for adjustment of LED color temperature (CCT) along with dimming.

### On/Off Switching

Fixture Adapter controls can be used to control high voltage relays for circuit-level controls, pumps, motors, etc., as well as building control systems.

### Persistent Memory

Fixture Adapters have internal non-volatile memory which preserves device settings, including groups and schedules, through power cycles.

### Antennas for Every Application

Multiple antenna options are available for indoor and outdoor applications without re-certification, including integrated internal antennas and interchangeable external antennas.

### Compact Size

All Fixture Adapters are 58mm x 38mm (L x W). The 0-10V only devices are 14mm high.

## Parts and Ordering

Select a part number from the table listed below.

Supply Voltage	Channels	Antenna Type	Part Number
11 - 18 VDC	Single	Connector	<b>2110UFL</b>
11 - 48 VDC	Dual	Connector	<b>2210UFL</b>

To order please contact Avi-on sales at **(844) 704-8383** or [prosales@avi-on.com](mailto:prosales@avi-on.com) for information on becoming an Avi-on partner and order details.

## Detailed Specifications

### Electrical

11 - 18 VDC Specifications	Min	Max	Unit
Supply Voltage $V_{in} - GND$	11	18	V
Short Circuit Output Current (0-10V Outputs)	-	±200	mA
Operating Current	17	250	mA

Combined Specifications (All Adapters)	Min	Max	Unit
Output Voltage 0-10V_OUT	-0.24	11	V
Storage Temperature	-40	85	°C
Ambient Operating Temperature	-30	85	°C

## Wire Connections

Signal Name	Wire Color	Description
GND	BLACK	DC Ground. Multiple BLACK wires are all Common Ground and may be used interchangeably.
Vin	RED	DC Power Input
0-10V_OUT[0]	YELLOW	User controllable 0-10VDC. Available in single and dual channel devices.
0-10V_OUT[1]	BLUE	User controllable 0-10VDC. Available in dual channel devices only.
GND	BLACK	DC Ground. Multiple BLACK wires are all Common Ground and may be used interchangeably.
Relay_Out	WHITE	Relay Control Voltage Output. Available in Relay Fixture Adapters only.

## Case Dimensions (Excluding Wires)

Part	Length (mm)	Width (mm)	Height (mm)
All	58	38	14

## Wire Dimensions

Part	Length (mm outside of case)
All	150

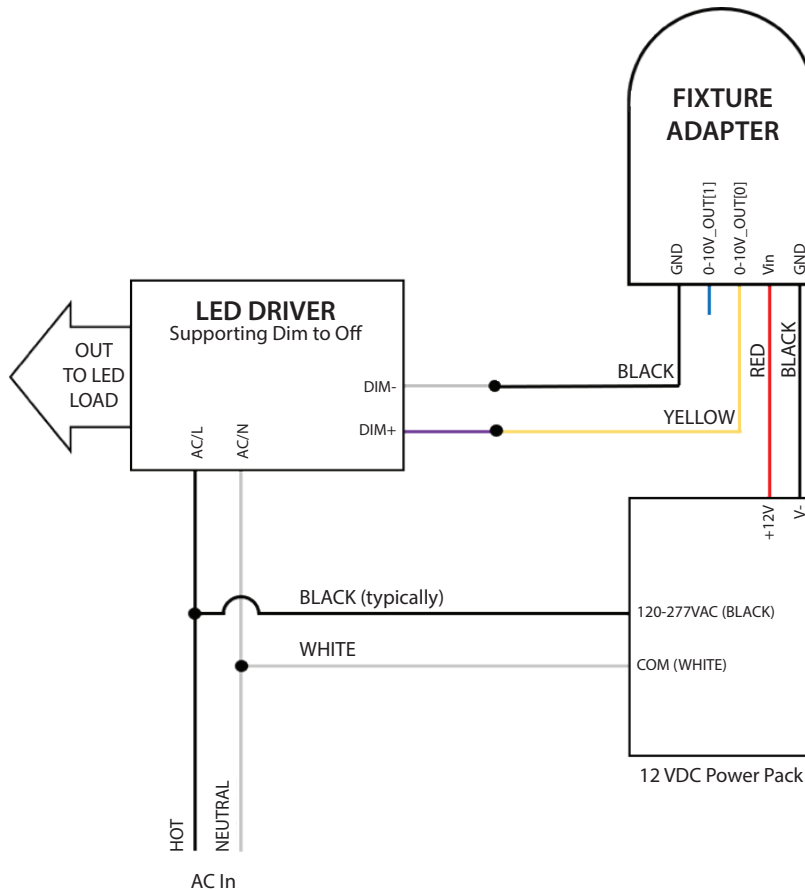
## Certifications

Regulatory	Description
USA*	FCC: 2AFZI-AV1010 15.207; 15.247(d), (a)(2), (b)(3), (e); 15.203; 15.209/205
EU	E: 0700 Model: AV1010 RoHS (2011/65/EU)
Canada	IC: 20544-AV1010 RSS-247: 8.8, 5.5, 5.2(1)(2), 5.4(4) RSS-Gen
BQB	DID: D031801 Qualified Design ID: 86303

\*UL not required, Fixture Adapters are low voltage DC-power devices.

## Product Diagram

For LED drivers with 0-10V dimming and dim-to-off capability, an Avi-on standard Fixture Adapter may be used to control dimming and dim-to-off. Most 12 VDC power supplies are compatible to power the fixture adapter (a 12 VDC power pack is used in the diagram). In some cases, the LED driver may support an auxiliary DC output capable of supplying fixture adapter power, in which case the power pack may be eliminated. The fixture adapter is designed for individual power control.



**Figure 1. Avi-on Fixture Adapter for LED Drivers with Dim-to-off**



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