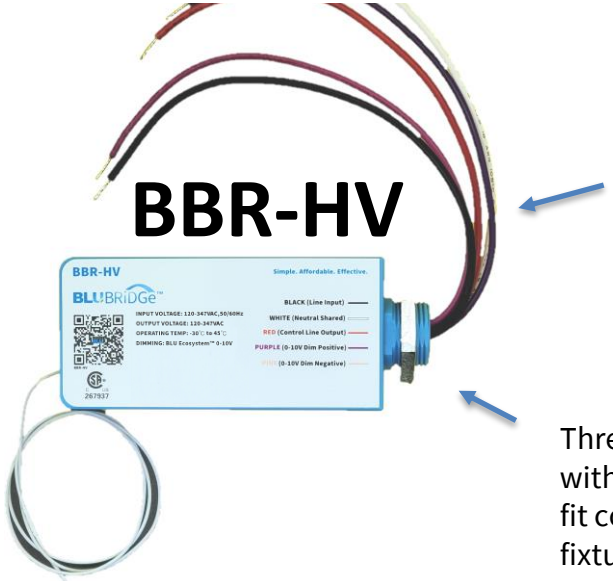
BLU BRiDGe™

BLU Ecosystem™
Wireless lighting control system.

BBR-HV High Voltage Controller

LED drivers with 0-10V dim-to-low circuit
Lights supplied pre-2021



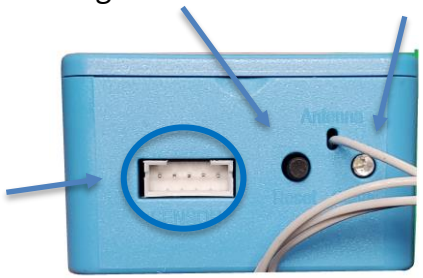
5 wires handle 120/347V input with on/off relay control along with 0-10V dimming; 10” length

Threaded nipple with locknut to fit common light fixture knockout

24” wireless antenna. Minimum 0.5” must be outstide of all metal enclosures

Reset button returns to default software settings.

Status LED indicates when controller in communications



Sensor 5-pin plug-in port

Visit www.blu-ecosystem.com for more information.

SIMPLE. AFFORDABLE. EFFECTIVE.

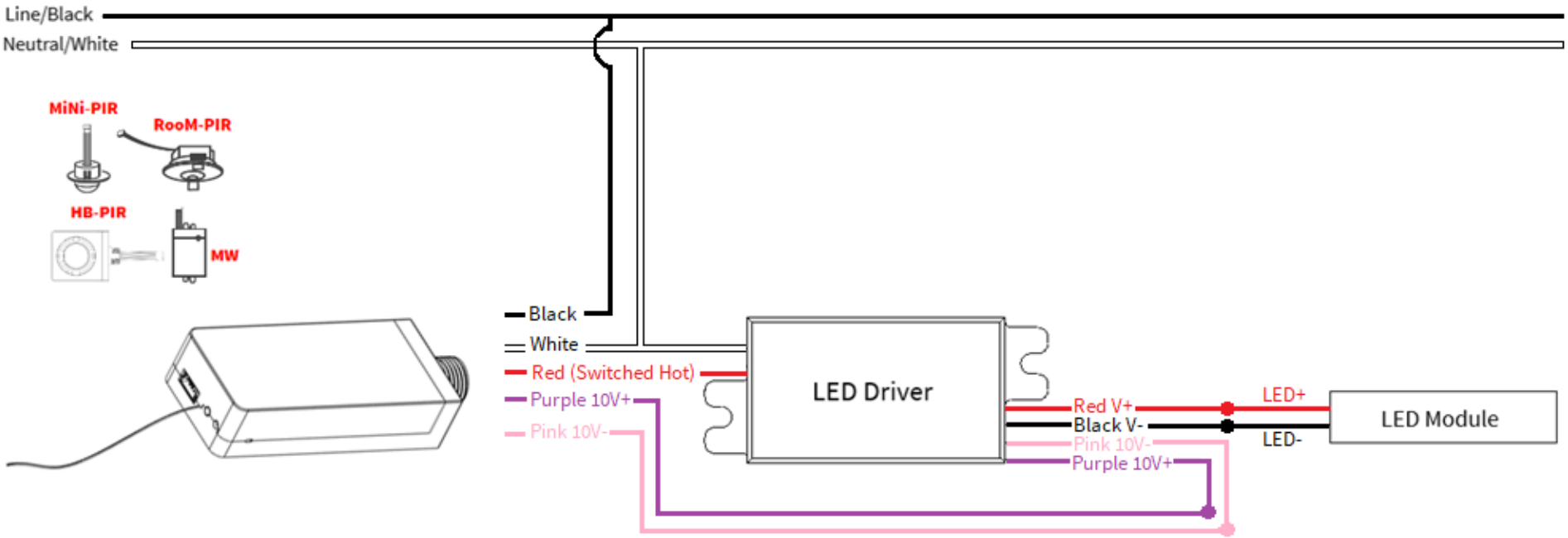
DESCRIPTION

The BLU BRiDGe™ BBR-HV 120/347V universal high voltage controller is a wireless control device that can be used with older dim-to-low style LED drivers. It features a sturdy polycarbonate housing with magnetic backing for easy placement within wiring channels. Convenient threaded nipple with locknut fits standard fixture 7/8” knockouts to allow for external mounting to the fixture electrical junction box or wiring channel. The BBR-HV has 2 x 18 AWG input wires for building line voltage and a single 18 AWG relay-controlled output wire to switch the LED on and off. The remaining 2x 18 AWG wires are used to control the LED driver 0-10V DC dimming circuit. A 2 FT wireless antenna is provided. At least 0.5 inch should remain outside of metal enclosures. A 12V DC receptacle is offered for motion/daylight sensor plug-in.

A Reset button is offered to return the BBR-HV to default software settings. The LED Status indicator light will turn on when the BBR-HV is receiving and sending wireless information. BBR-HV controlled lights may be programmed using the SMART BLU® CLOUD App.

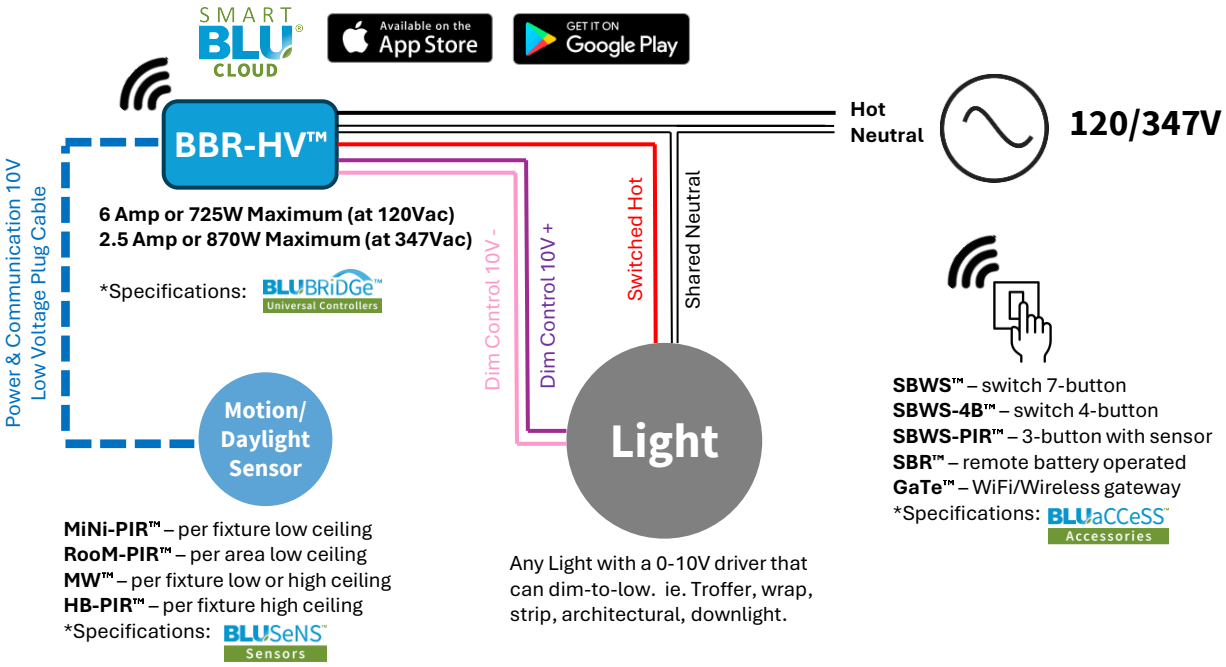
SPECIFICATIONS	
Injection Moulded Housing	Polycarbonate
Fire Rating	UL94 5VA
Safety Rating	$_{C}CSA_{UL}$
Input Voltage & Power	120-347V AC, 50/60Hz, 720-865W
Input Current / Output Current	6A@120V / 2.5A@277V / 2.5A@347V
Output Voltage	120-347V AC, 50/60Hz
Operating Temperature	-30°C to 45°C
2 Input Wires & 3 Output Wires	UL1015 600V 18AWG
Max Wire Length to Furthest Driver	> 100 ft
0-10V Circuit Maximum Current	50 mA
Wireless Antenna Length	2 FT
Dimensions	3 " L x 1.8" W x 0.875" D
Warranty	5 Years

BBR-HV High Voltage Controller



Typical Wiring Schematics for 0-10V Dim-to-Low / Relay Off - Controller

1. BBR-HV per Light with single motion/daylight sensor:



2. BBR-HV per multiple Lights with motion/daylight sensors: