

INTRODUCTION

BLU BRiDGe™ controllers offer an innovative and affordable option to convert any LED fixture to wireless control with automation. This includes but is not limited to troffers, wraps, strips, vapor tights, architectural. Installation can be done at the assembly line or on the project site through a fast and simple process. A wide range of plug-in motion and daylight sensors are available for automation as are manual control options such as 120/347V wall switches and battery-operated remote controls. After installing a BLU BRiDGe™ controller and applying power, simply download the SMART BLU™ CLOUD App and program your lights. A perfect choice for architects, engineers, contractors and end users.

THREE COMMON LED DIMMING METHODS

There are currently three common methods of dimming LED lights:

LOW VOLTAGE DIM-TO-OFF



BBR-LV

LED drivers with 0-10V dim-to-off circuit Lights supplied after 2020

2

LOW VOLTAGE DIM-TO-LOW /
LINE VOLTAGE RELAY-OFF



BBR-HV

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

Visit <u>www.blu-ecosystem.com</u> for more information. SIMPLE. AFFORDABLE. EFFECTIVE. 3 LINE VOLTAGE REVERSE PHASE DIM



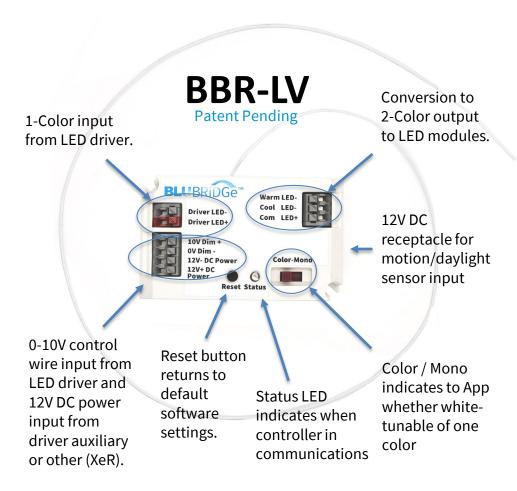
BBR-RP

LED drivers that can be dimmed through line voltage adjustment. Typical of downlights, track and architectural lights.



BBR-LV Low Voltage Controller

LED drivers with 0-10V dim-to-off circuit Lights supplied after 2020



DESCRIPTION

The BLU BRiDGe™ BBR-LV low voltage controller is a wireless control device that can be used with newer dim-to-off style LED drivers. It features a sturdy polycarbonate housing with magnetic backing for easy placement within wiring channels. Convenient poke-thru receptacles can accommodate 16-20AWG wires. The left side of the controller features inputs received from LED driver. For drivers without 12V auxiliary output an XeR™ transformer will be required. The BBR-LV can convert standard single-color LED input to two-color LED output for white-tunable control. If conversion is not required, then the Driver LED inputs are not used. 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.

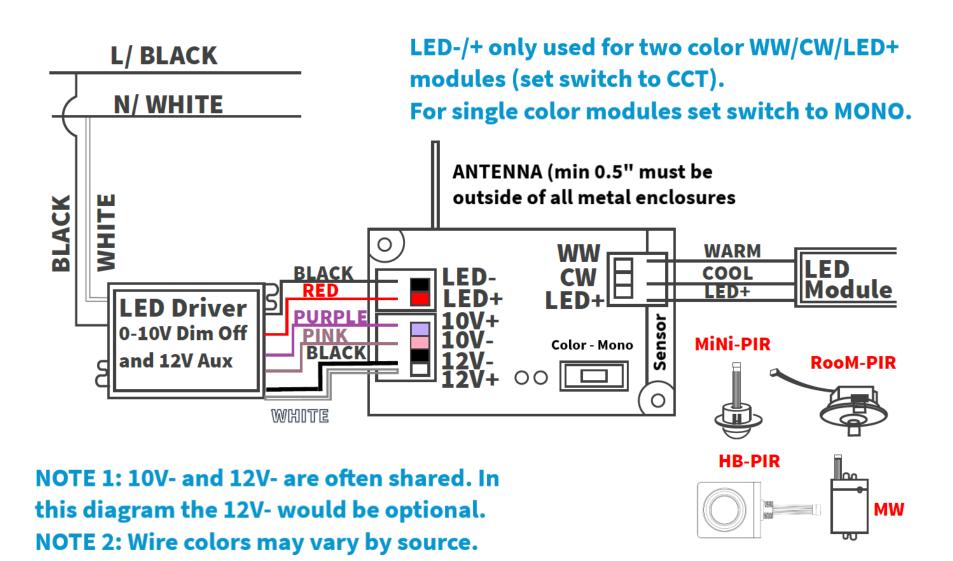
A Reset button is offered to return the BBR-LV to default software settings. The LED Status indicator light will turn on when the BBR-LV is receiving and sending wireless information. The Color-Mono switch is provided to inform the SMART BLU™ CLOUD App that the light controlled is either white-tunable or monocolored.

SPECIFICATIONS		
Injection Moulded Housing	Polycarbonate	
Fire Rating	UL94 V0	
Safety Rating	UL/CUL VDE	
Input Power	12V DC	
Max Output Power in Mono Mode	Unlimited	
Max Output Power in Color Mode	50V DC 2.2A	
Max Wire Length to Furthest Driver	8 FT	
Max Drivers Controlled	≤4	
Wireless Antenna Length	2 FT	
Poke-thru Connector Wire Gauge	16-20 AWG	
Dimensions	3 " L x 1.8" W x 0.875" D	
Warranty	5 Years	

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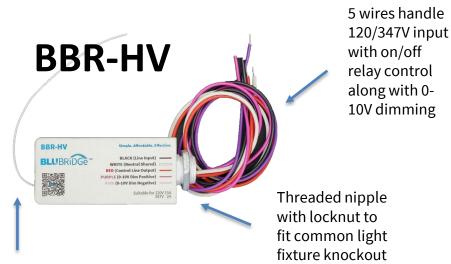
BBR-LV Low Voltage Controller





BBR-HV High Voltage Controller

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



24" wireless
antenna. Reset button
Minimum 0.5" returns to
must be outstide default software
of all metal settings. Sensor plug-in port
enclosures

Status LED
indicates when
controller in

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.

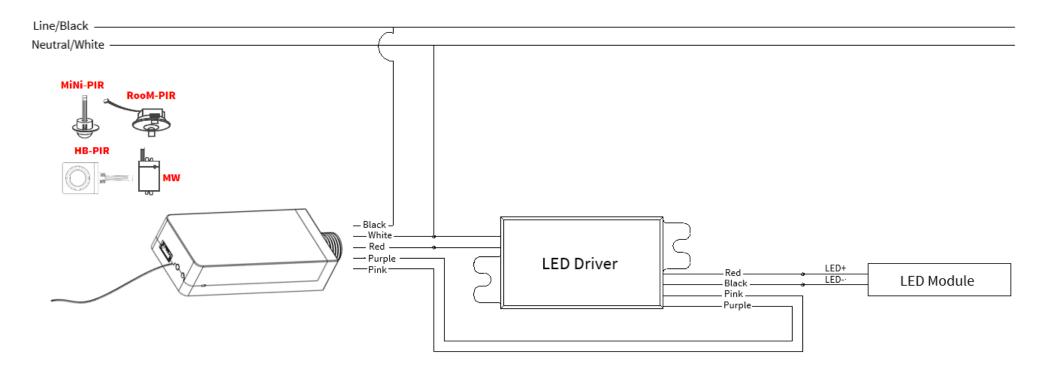
SPECIFICATIONS		
Injection Moulded Housing	Polycarbonate	
Fire Rating	UL94 5VA	
Safety Rating	$_{C}CSA_{UL}$	
Input Power	120/240/277V 7A & 347V 2A	
2 Input Wires & 3 Output Wires	UL1015 600V 18AWG	
Max Wire Length to Furthest Driver	8FT	
Max Drivers Controlled	≤4	
Wireless Antenna Length	2 FT	
Maximum Auxiliary Output	12V DC 50mA	
Dimensions	3 " L x 1.8" W x 0.875" D	
Warranty	5 Years	

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communications



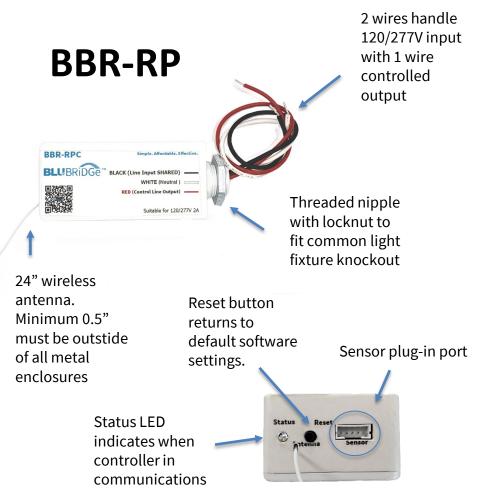
BBR-HV High Voltage Controller





BBR-RP Reverse Phase Controller

Line Voltage LED drivers without LV dimming circuits Downlights, Track, Wall Sconces, Architectural



DESCRIPTION

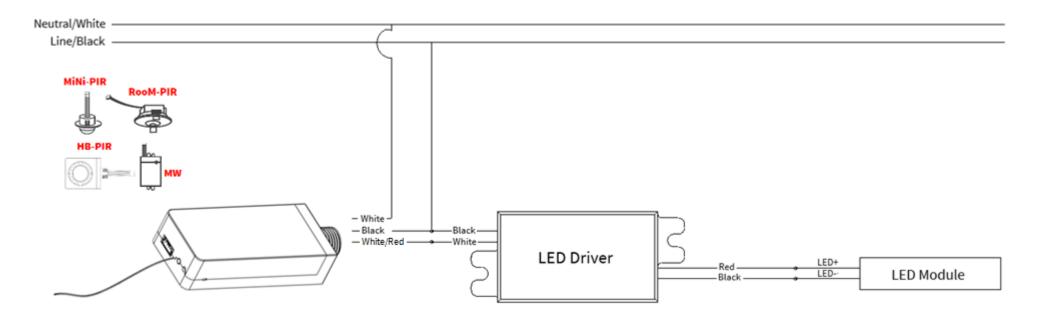
The BLU BRiDGe™ BBR-RP 120/277V line voltage controller is a wireless control device that can be used with line voltage dimmable LED drivers. It features a sturdy polycarbonate housing with magnetic backing for easy placement within wiring channels. Convenient threaded nipple with locknut fits standard fixture 7/8" knockouts to allow for external mounting to the fixture electrical junction box or wiring channel. The BBR-RP has 2 x 18 AWG input wires for building line voltage and a single 18 AWG relay-controlled output wire to dim LED driver. 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 plugin.

A Reset button is offered to return the BBR-RP to default software settings. The LED Status indicator light will turn on when the BBR-RP 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 Power	120/277V 2A
2 Input Wires & 1 Output Wires	UL1015 600V 18AWG
Max Wire Length	2FT
Max Drivers Controlled	Limited by Amperage
Wireless Antenna Length	2 FT
Maximum Auxiliary Output	12V DC 50mA
Dimensions	3"L x 1.8"W x 0.875"D
Warranty	5 Years



BBR-RP Reverse Phase Controller



Note that the Line/Black is shared between BBR-RP and the LED Driver. Dimming control occurs via White/Red connecting to LED Driver White.

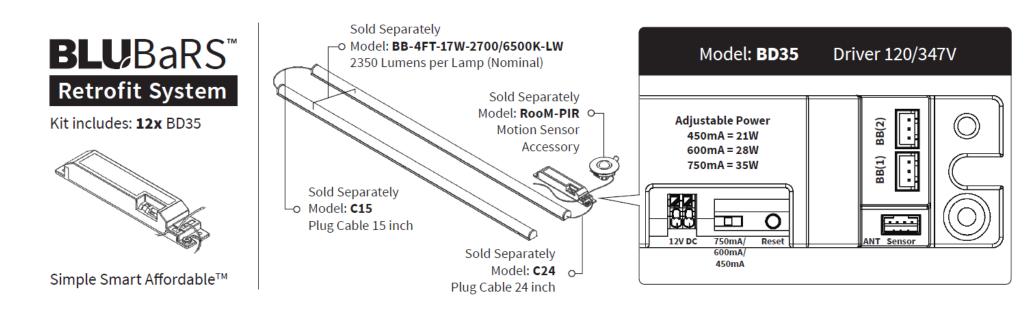


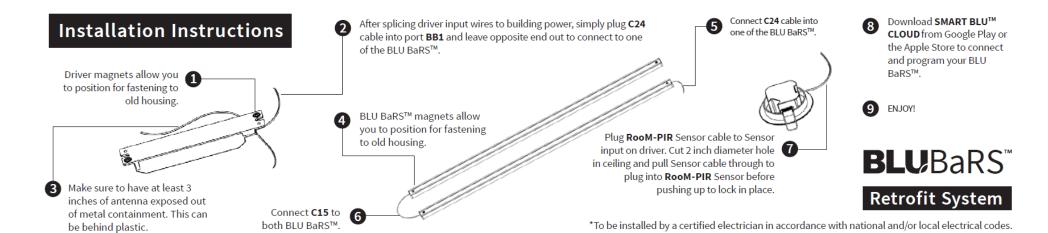




J2 Light® Version 230110













J2 Light® Version 230110