BLU/BRIDGe"

BLUECOSYSTEM" Wireless lighting control system.

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



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

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.

LINE VOLTAGE REVERSE PHASE DIM

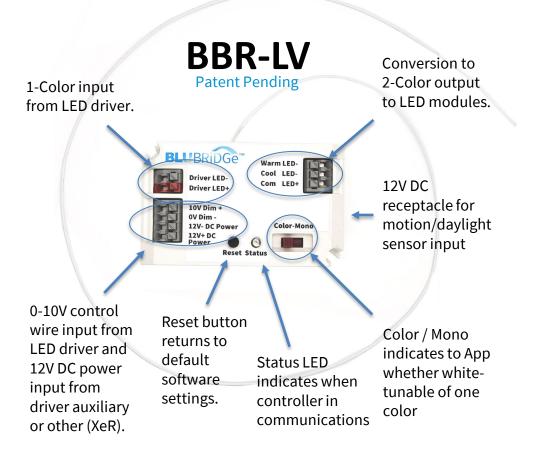


LED drivers that can be dimmed through line voltage adjustment. Typical of downlights, track and architectural lights.

BLU/BRIDGe"

BBR-LV Low Voltage Controller

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



BLUECOSYSTEM^T Wireless lighting control system.

DESCRIPTION

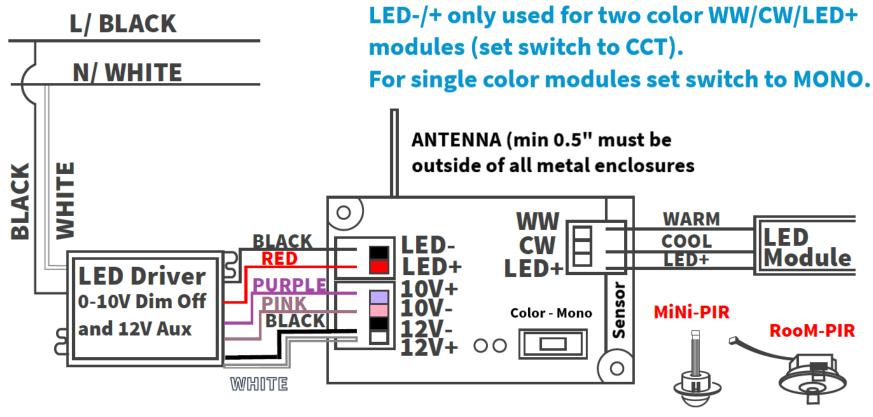
The BLU BRiDGe[™] BBR-LV low voltage controller is a wireless control device that can be used with newer dim-to-off style LED drivers. It features a sturdy polycarbonate housing with magnetic backing for easy placement within wiring channels. Convenient poke-thru receptacles can accommodate 16-20AWG 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 mono-colored.

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			

BLU/BRIDGe"

BBR-LV Low Voltage Controller



NOTE 1: 10V- and 12V- are often shared. In this diagram the 12V- would be optional. NOTE 2: Wire colors may vary by source. HB-PIR

BLUDRiVe

BLUECOSYSTEM[™] Wireless lighting control system.

DESCRIPTION

- Input voltage range: 120 to 347VAC, 50/60Hz
- Power factor: ≥ 0.90
- THD: ≤ 20%
- Input inrush current: ≤ 10A at 347V/25%
- Maximum input current: 0.38A at 108V
- Turn-ON delay time: ≤ 1 sec at 120Vac
- Efficiency: ≥ 80% at 347V
- Flicker: ≤ 5%
- Over voltage protection: Hiccup mode
- Output short circuit protection: Auto recovery

SPECIFICATIONS AT 347V					
	SYMBOL	MEASUREMENT	UNIT	REMARK	
Input Voltage	Vin	347	V		
Input Current	lin	90 ~ 115	mA		
Input Frequency	F	60	Hz		
Input Power	Pin	28 ~ 37	W	LED loader from	
Power Factor	PF	0.90		30V-42V	
Output Current	lout	750	mA		
Efficiency	•	81~85	%		

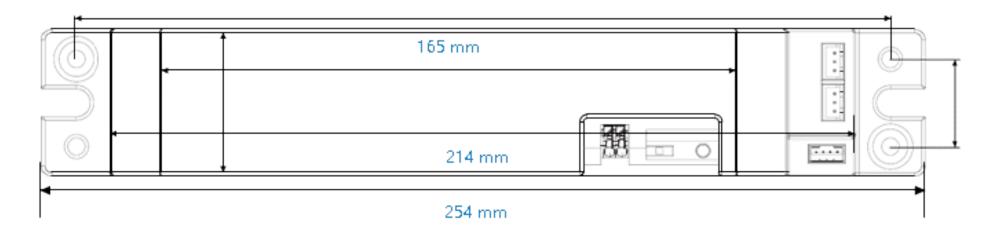
ENVIRONMENTAL				
Operating Temperature Range	-30°C to +40°C (Max)			
Operating Humidity Range	5% RH to 95% RH			
Storage Temperature Range -30°C to +40°C (Max)				
Storage Humidity Range 5% RH to 95% RH				
Estimated Life At Full Load & Tc Point ≤ 80°C				
Mean Time Before Failure @ Ambient Temp 25 ⁰ C	50,000 Hours			
Warranty	5 years			

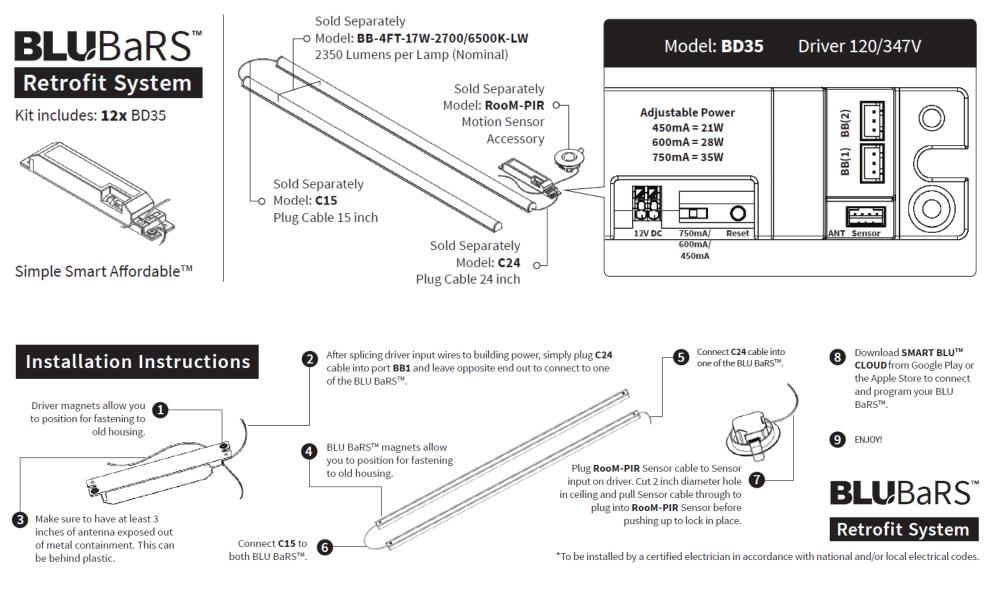


BLU/DRiVe

NOMENCLATURE				
FAMILY SERIES	WATTS			
BD =BLU DRiVe TM	35=35W			
	EXAMPLE: BD35			

DIMENSIONS







J2 Light[®] Version 230110

Contact your local supplier or representative or call J2 Light Inc. direct at: **1.888.LOW.WATT (569.9288)** <u>www.blu-ecosystem.com</u> **SIMPLE. AFFORDABLE. EFFECTIVE**

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