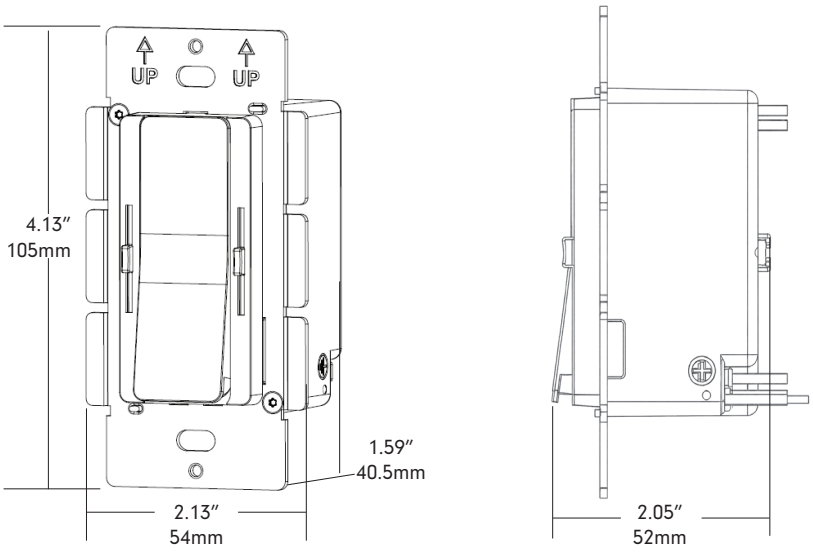
- Integrated Constant Voltage LED Driver + Dimmer
- Space-Saving 2-in-1 In-Wall Design
- 120VAC, 60Hz Input
- Field-Adjustable Output Voltage
- Flicker-Free Dimming Performance
- Dual-Channel PWM Output for Dynamic White LED Loads
- Independent Warm White and Cool White Output Channels
- Local On/Off, Brightness, and Color Temperature Control
- Compatible with Matter-Enabled Smart Home Platforms
- Synchronized Wall Control and App Control
- Supports Single-Pole and 3-Way Applications
- Low-Voltage Constant Voltage Output
- High- and Low-Voltage Separation Barrier Included
- Short-Circuit, Overload, and Overtemperature Protection
- Suitable for Indoor Dry Locations
- 5-Year Warranty

## Dimensions




## Order Guide

| DESCRIPTION | CAT NO | APPLICATION | PRIMARY VOLTAGE | SECONDARY VOLTAGE | CIRCUIT BREAKERS | MAX LOAD | CIRCUIT CAPACITY |
|---|---|---|---|---|---|---|---|
| Driver + Dimmer 2-in-1 3-Channel Class 2 Wireless | TDD-2-XXX-24-KIT | INDOOR | 120V AC 60Hz | 24V DC | 1 | 96W | 4A |

**XXX** = **BLK** (black), **WHT** (White), **LTA** (Light Almond)

Note: High-/Low-voltage Separation Barrier, 8ea Twist-On Wire Connectors, 2ea Mounting Screws included

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## Specification

| CAT NO. | TDD-2-XXX-24-KIT |
|---|---|
| DC Voltage | 24V |
| Transformer Classification | Class 2 |
| Rated Current | 4A |
| Rated Power | 96W |
| Dimming Range | 100%-0.3% |
| Voltage Tolerance | ±0.5V |
| **Output** | |
| Input Voltage | 120V AC |
| Frequency Range | 60Hz |
| Power Factor (Typ.) @ full load | 0.99@120VAC |
| THD (Typ.) @ full load | ≤10% |
| Efficiency (Typ.) @ full load | 91% |
| AC Current (Max.) | 0.9A |
| Inrush Current (Typ.) | 50A, 150us@50% Ipeak |
| Leakage Current | <0.5mA |
| **Physical** | |
| Net Weight | 0.6 lbs |
| Dimension | 4.13" H × 2.13" L × 2.05" W |
| **Protection** | |
| Short Circuit | Hiccup mode, recovers automatically after fault condition is removed |
| Over loading | ≥110% Hiccup mode, recovers automatically after fault condition is removed |
| Over heating | When the shell surface temperature reaches 100 ±10 , shut down o/p voltage and automatically recover after cooling |
| **Environment** | |
| Working Temp. | -40˚ to 60˚C (-40˚ to 140˚F) |
| Working Humidity | 20-95% RH, non-condensing |
| Storage Temp | -40˚ to 80˚C (-40˚ to 176˚F) |
| Storage Humidity | 10-95% RH |
| Temp. Coefficient | ±0.03%/˚C (0-50˚C) |
| Vibration | 10~500Hz, 2G 12min./1 cycle, period for 72 min. each along X,Y,Z axes |
| **Safety Compliance & EMC** | |
| Certification | UL Listed, FCC, RoHS |
| Safety Standards | UL8750 CAN/CSA-C22.2 No.250.13 (US) |
| Withstand Voltage | I/P-O/P:1.88KVAC I/P-F/G:1.88KVAC O/P-F/G:0.5KVAC (US) |
| Isolation Resistance | I/P-O/P:100MΩ / 500VDC / 25degree/ 70% RH |
| EMC Immunity | FCC/ICES do not request this test (US) |
| EMC Emission | FCC Part15 Subpart B ANSI C63.4:2014 (US) |
| Warranry | 5 Years |

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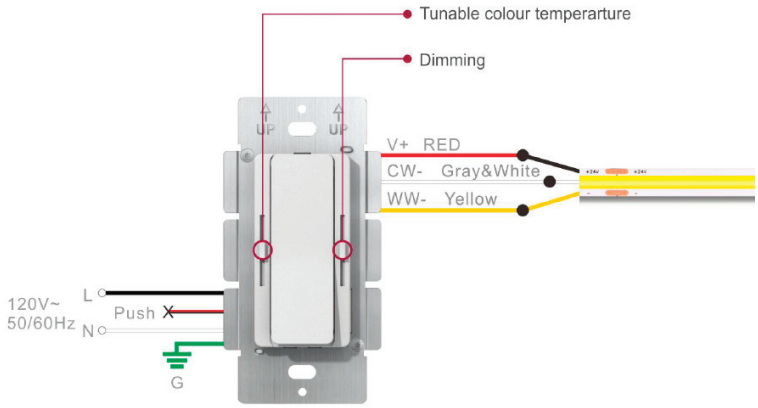
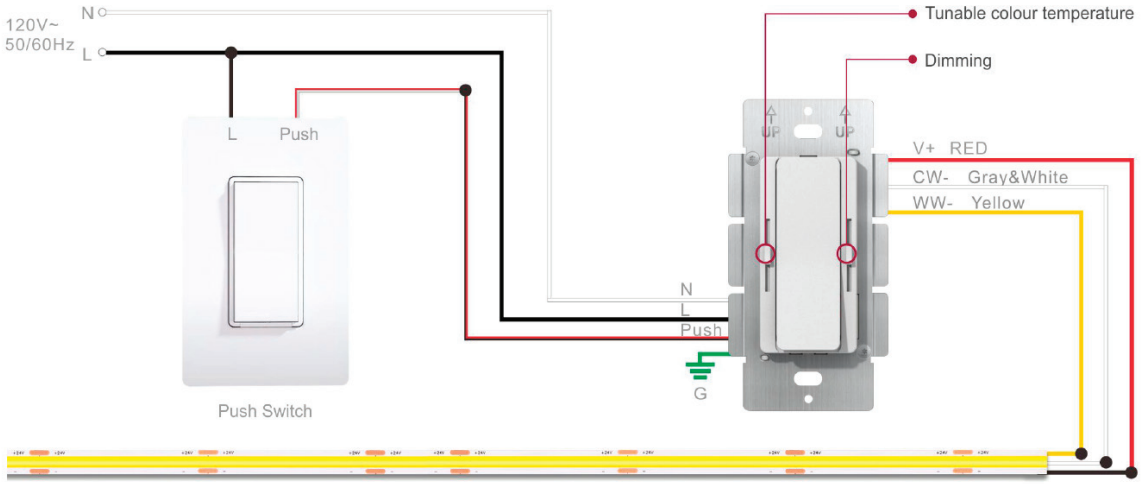
## Wiring Diagram - Power Supply

### Standard Dimming System




### 3-Way Dimming System

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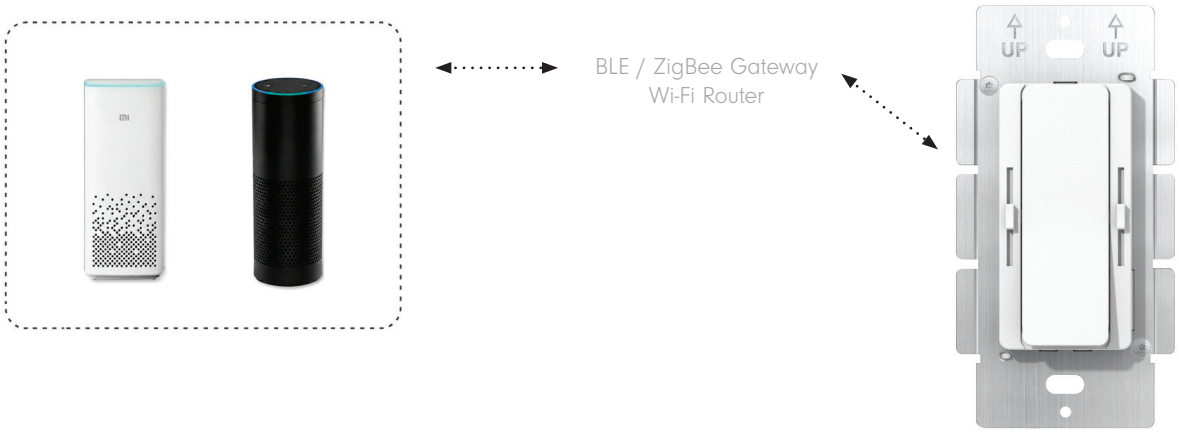
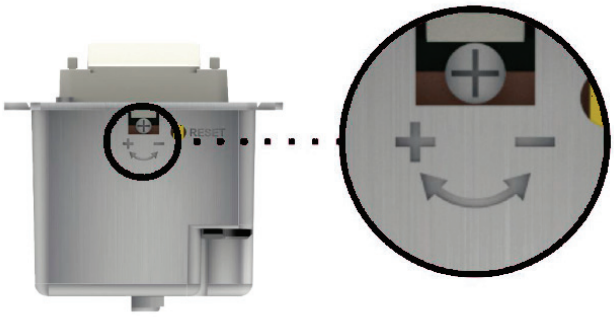
## Wiring Diagram - Dimmer

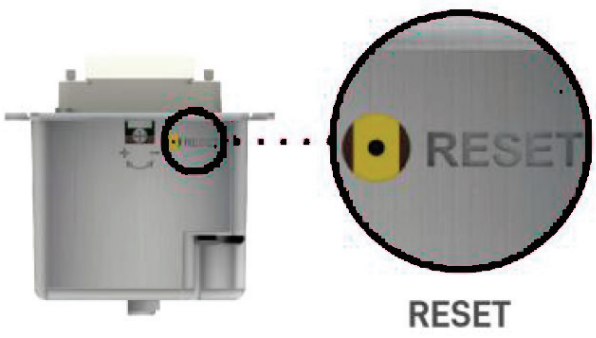



## Voltage Adjustment



Clockwise rotation of the high voltage
24V output volt.: 24-26V

## Wireless Module Reset




Wireless module network manual reset mode

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