The wiSCAPE Wireless Internal Fixture Module is a bidirectional wireless RF device that allows an individual fixture to be managed, monitored and metered. The wiSCAPE Module can switch loads of up to 7A @ 120V-240V, 5A @ 277V-347V or 2A @ 480V. Universal input voltage allows the module to function on 120-480V circuits at 50/60 Hz. The Fixture Module works with all fixture types including: LED, Induction, MH-HPS-LPS, Incandescent, Halogen and Plasma. The adaptable sink and source 0-10V output is compatible with all dimming drivers. Digital and analog inputs and outputs make sending and receiving signals from additional control devices simple and easy.

Available in either 2.4GHz or 900MHz ISM (Industrial, Scientific and Medical) radio versions, each wiSCAPE Internal Fixture Module transmits over the air using military grade AES-128 (Advanced Encryption Standard) security. AES is a powerful encryption method used in many data security applications.

The wiSCAPE Fixture Module drastically simplifies control and automation of projects, especially in retrofit environments and challenges the legacy world of wired-systems. wiSCAPE wireless control technology adapts easily to complex automation situations for quick, simple and economical commissioning.

**Product Features**

- 3 Digital inputs / 1 analog input for low-voltage switch, motion and photo sensors
- Universal dimmer 1-10V (sink/source) for all types of ballasts & drivers
- 2 Dry contact outputs for driving external contactors
- Bidirectional long range wireless RF Mesh communications
- Integration with wiSCAPE software
- Multi-level grouping and multiple scenarios
- Adjustable minimum and maximum dimming levels
- Programmable state after blackout, with peak shaving options
- Commercial-grade metering
- Smart daylight harvesting and motion sensing functions, with occupied and unoccupied levels including a lamp saver function
- Manual-ON/Auto-OFF, Auto-ON/Auto-OFF and grace period compliant (complies with N.Y. LL48 and many other energy requirements and incentives)

**Compliance and Certification**

**Dimensional Data**

**Ordering Information**

**Model**

- WIR-RMI-IO
- WIR-RM9-IO*

**Enclosure**

- Blank
- None
- N4 NEMA 4

**Accessories**

- WIR-RMDB-40** wiSCAPE™ Fixture Module 0-10V Dimming Booster with 40mA Sink

* 900 MHz Devices are MTO - Contact Customer Service for Availability
** Add-on component that increases the number of fixtures that can be dimmed/sunk
**WIR Series**

**Wireless Internal Fixture Module**

### Wiring Diagrams

#### BLACK L1 (120/277/347V)

- **VIOLET (0-10V)** Analog + Dim Control
- **GRAY (0-10V)** Analog - Dim Control
- **L1**
- **N**
- **BLUE**

#### Load A

- **WHITE Neutral**

#### BLACK L1 (208/480V)

- **VIOLET (0-10V)** Analog + Dim Control
- **GRAY (0-10V)** Analog - Dim Control
- **L1**
- **L2**
- **BLUE**

#### Load A

- **WHITE L2 (208/480V)**

### General Specifications

**Voltage**
- 120-480VAC; 50/60Hz (+/-10%)
- Less than 1 watt consumption at 120V

**Maximum load Amperage**
- 110-240VAC: 7 Amps
- 277-347VAC: 5 Amps
- 480VAC: 2Amps

**Output Status Monitoring**
- Standard feature

**Power Metering**
- Amperage - Voltage - Power (better than 2% accuracy), Power Factor, Cumulative Energy - Burn-time counters

**Options**
- Hi-Lo: Control for HID (Core & Coil) Dual-capacitors
- 0-10V dimming: For all types of 0-10V drivers & ballasts requiring either to be sunk (up to 5mA) or sourced (up to 20mA)

**Inputs**
- 3 Digital: ex: Motion sensor and switch top/bottom buttons (0-30V) + 2 Analog (0-30V)

**Outputs**
- 2 Digital sink max: 100mA total or source 2.4mA (10K pull-up)
- Aux power supply: 24Vdc 50mA

**Long Range Radio**
- Up to ~1,000 ft. (~300m) Note: Antenna must be mounted vertically up or down. Range based on clear line of site.
- Recommended deployment practices: Locate wireless devices within a 300 foot radius of the next wireless device for most reliable performance.

**Ambient temperature range**
- -40°F to 158°F (-40°C to +70°C)

**Relative Humidity**
- 0% to 100% non-condensing (fully waterproof packaging option)

**Optional Mounting Enclosure**
- NEMA 4: 6.25” (158.75mm) H x 3.125” (79.38mm) W x 3.375” (85.73mm) D

**Certifications**
- UL: E485483
- UL94V-0 Flame retardant ABS or epoxy molding

**Warranty**
- Five-year limited