

Wireless Internal Fixture Module

wiSCAPE™



Project Name _____

Catalog No. _____ Date _____

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.

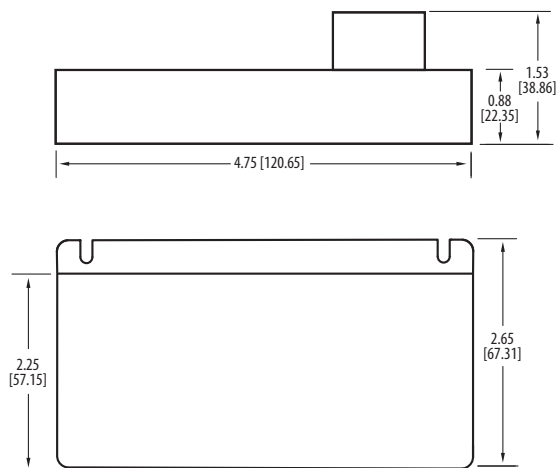
Product Features

- 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

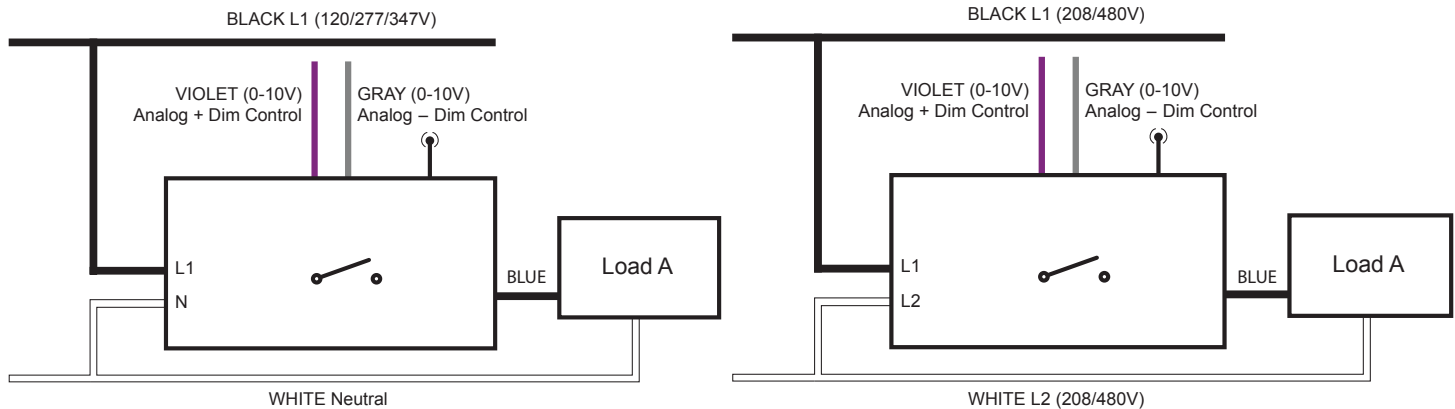


Ordering Information

MODEL		ENCLOSURE
WIR-RMI-IO	wiSCAPE™ Internal Fixture Module with Metering, 2.4GHz - 1000' Range, 120-480VAC, Input/Output	Blank None
WIR-RMI9-IO*	wiSCAPE™ Internal Fixture Module with Metering, 900MHz - 1000' Range, 120-480VAC, Input/Output	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

Wiring Diagrams



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 2.4GHz Version - FCC: U.S. FCC Part 15.247 Class A: OUR-XBEE / OUR-XBEE PRO, Canada IC: 4214A-XBEE / 4214A-XBEE PRO, Europe CE: ETSI / ETSI 900MHz Version - FCC: U.S. FCC Part 15.247 Class A: MCQ-XB900HP UL94V-0 Flame retardant ABS or epoxy molding
Warranty	Five-year limited