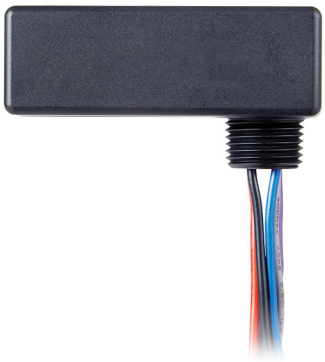
WIRELESS CONTROL MODULE

EN-WCM2-ZB

Luminaire or
Junction Box Mount



Single 0-10V dimming output, capable of sinking 10mA

30 m (100 ft) line of sight, 15.2 m (50 ft) standard walls when mounted outside of the junction box

Damp rated model available

DESCRIPTION

The Wireless Control Module (WCM) is a key component of the Wattstopper PLUS system. Individually addressable, the WCM enables each ballast or LED driver to be independently controlled and configured to meet the facility's needs. The WCM switches a fixture ON or OFF via a relay contained in the module as well as delivers a low voltage dimming signal to any 0-10V dimming ballast/LED driver.

With GreenBus natively built in the device, the WCM enables a range of wired devices to be connected, such as occupancy sensors, daylight sensors, and phase-cut dimming modules. Furthermore, it allows wireless hybrid system designs without batteries by allowing DC-powered wallstations and sensors.

A damp-rated WCM is available for installation in locations subject to moderate degrees of moisture. Examples of this type of environment may include basements, parking garages, cold storage warehouses, and partially protected locations under canopies, marquees, and porches with open roofs.

FEATURES

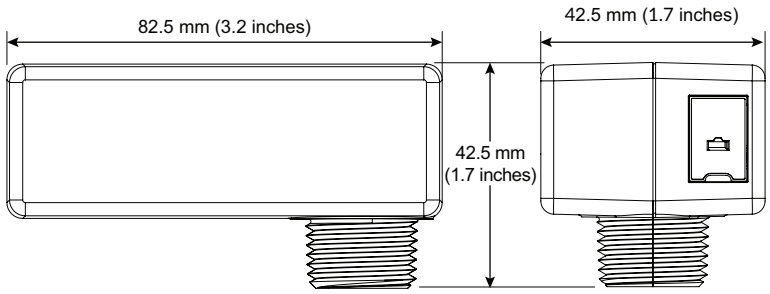
- Wireless capable devices significantly reduces installer labor hours
- Native connection for all GreenBus devices to enable Hybrid system designs
- Connects 0-10V dimmable luminaires allowing customized lighting scenes for tailored experiences/tasks
- Ideal for luminaire or junction box mounting
- Provides energy reporting data via measuring total load current

SPECIFICATIONS

- Voltage: 120–347V
- Maximum Load Ratings:
  - 4.5A @120–347V, Ballast/LED
  - 5.8A @120–347V, Tungsten
  - 9A @120–347V, General Purpose
- Maximum 5 luminaires per LCM
- Wireless (2.4GHz) Range: 100ft line-of-sight to other repeater devices, 50ft through standard wall materials
- Device acts as a repeater when in range of 3 or more repeater devices, expanding wireless system communication range.
- Operating Temperature: -40° to 140°F (-40° to 60°C)
- Relative Humidity: 0% to 95%, non-condensing
- Weight: 121 g (4.3 oz)
- Certifications
  - UL916 cUL US (Energy Management Equipment
  - UL924 cUL US Listed (Emergency Lighting Equipment
  - UL2043 Plenum Rated
  - FCC Part 15/ICES-003
  - RoHS Compliant
- Complies with Electromagnetic Compatibility (EMC) Standards:
  - EN 61000-4-2, EN 61000-4-4, EN 61000-4-5
- 5 year warranty

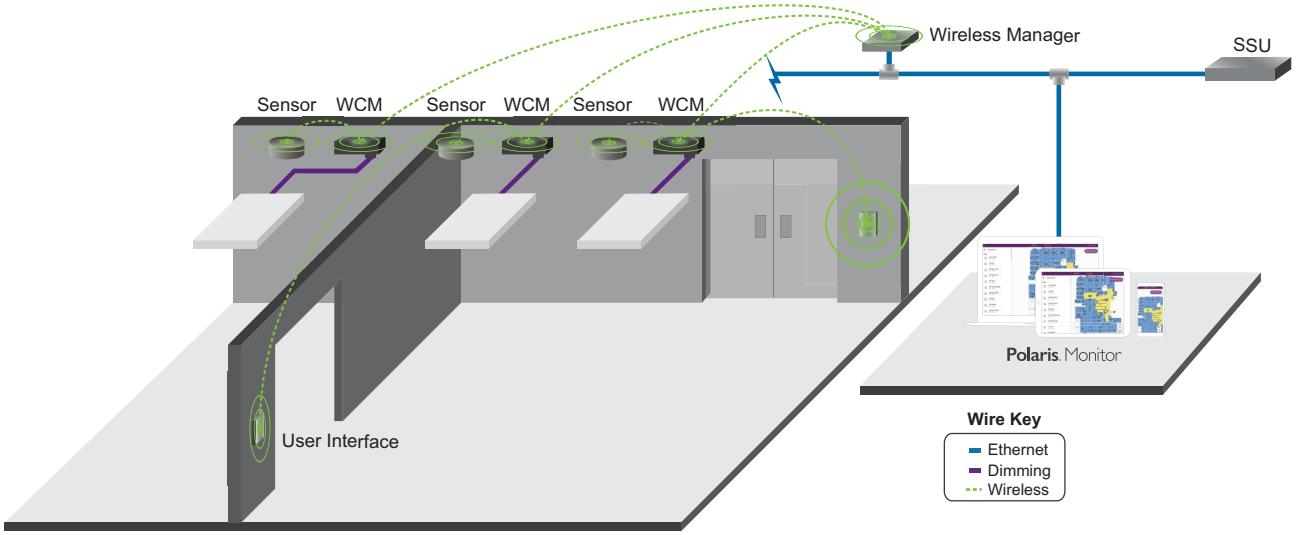
PROJECT		LOCATION/ TYPE	

DIMENSIONS

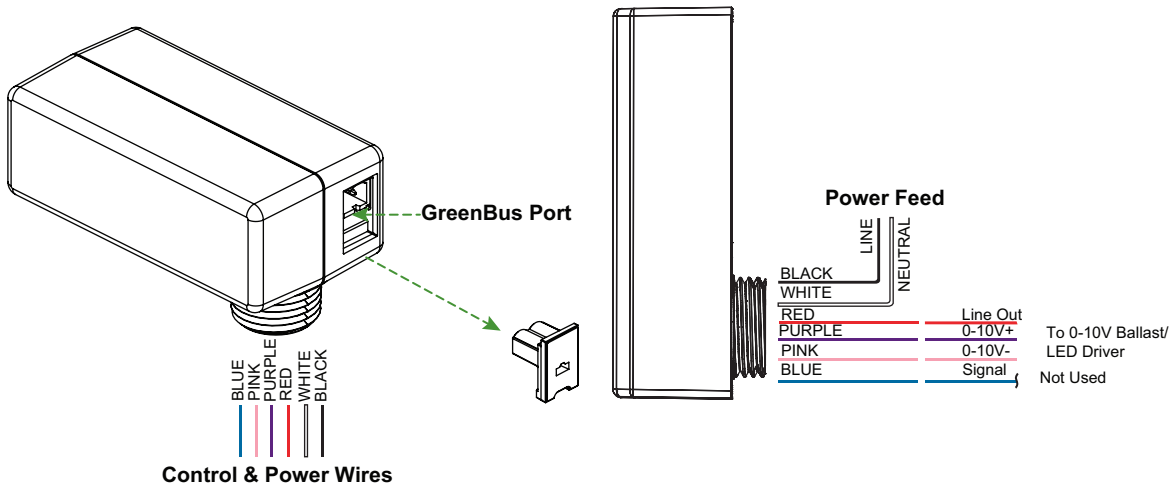


SYSTEM OVERVIEW

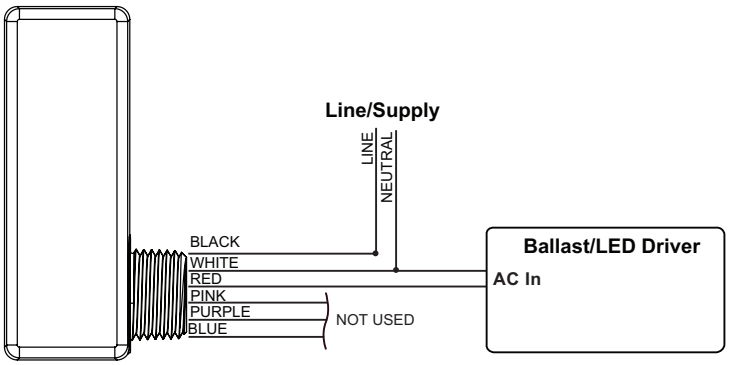
This illustration shows how each component is easily integrated into the Wattstopper PLUS System.



WIRING

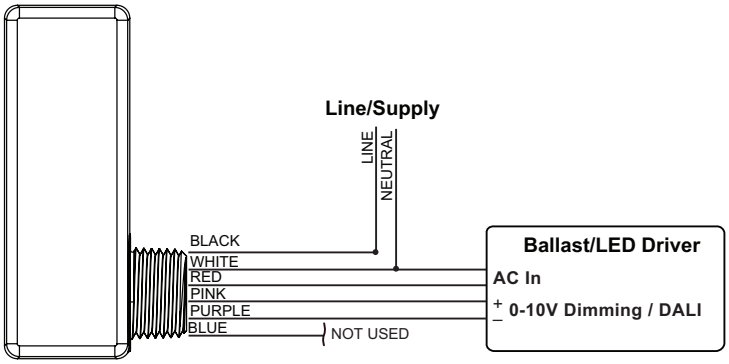


WCM to a Non-Dimming Luminaire



For a non-dimming fixture, cap off Pink, Purple, and Blue wire ends with UL Listed Wire Nut

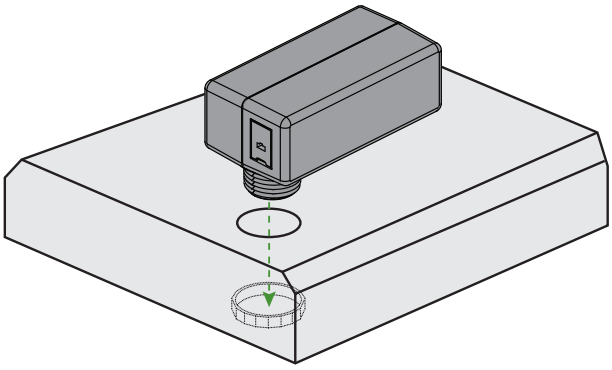
WCM to a Dimming Luminaire

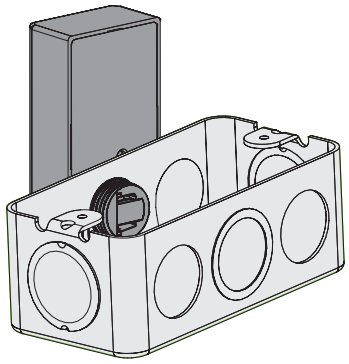


Cap off Blue wire end with UL Listed Wire Nut

MOUNTING

The mechanical construction allows for simple installation of the module in an available PG-7 (0.5 inch) trade-size knockout on top or side of a luminaire. For some installations, a junction box may be required. In this situation, Wattstopper recommends securely mounting the WCM to the junction box using an available PG-7 (0.5 inch) trade-size knockout and retainer nut.





ORDERING INFORMATION

Catalog #	Description	Communication Network
EN-WCM2-ZB	Wireless Control Module	Wireless
EN-WCM2-ZB-DR	Wireless Control Module, damp rated	Wireless

080439r6 Rev 3/26