

What is being announced?

A new addition to the Hubbell Control Solutions WASP Occupancy Sensor product line – a Bluetooth[®] enabled passive infrared fixture mounted occupancy sensor. The BT WASP provides ON/OFF and 0–10V dimming control with “From the Ground” programming using the new HCS ControlHUBB App.

How is this new sensor different from the legacy WASP sensors?

The legacy sensors are only available in either ON/OFF or dimming versions and utilize dip switches for programming. The new BT WASP provides ON/OFF and dimming control and is programmed using an app. There are no dip switches on the new sensor.

When will the sensor be available?

The BT WASP will be available January 2020.

What sensing technology does the sensor use?

The BT WASP uses passive infrared technology for the detection of motion. This consists of a quad element pyrometer and an interchangeable spherical Fresnel[®] lens designed specifically for high or low mount applications (available separately).

What are the electrical ratings for the sensor?

Line voltage models: 120-480VAC, 60Hz

Low voltage models: 24VDC “class 2” (requires UVPP or MP-series power packs, or a Dim-to-Off Driver with auxiliary power)

What are the load ratings for the sensors?

Load Types	120V	277V	347V	208V/240V/480V
Tungsten	10A	–	–	–
Std. Ballast	5A	5A	5A	3A
Elec. Ballast	5A	5A	3A	–

How much can the sensor dim or sink?

The BT WASP can sink up to 30mA.

Can the low voltage version of the sensor be used with Dim to Off Drivers?

Yes. Drivers must have a 24VDC auxiliary power supply.

When dimming, what’s the lowest voltage the sensor will dim to?

The BT WASP dims all the way to 0V, ensuring that Dim to Off drivers will turn off.

Does the line voltage version of the sensor contain Zero Arc Point Switching technology?

Yes. The BT WAPS features Zero Arc Point Switching technology that minimizes relay contact wear from high inrush loads.

Is this a standalone or networked sensor?

This is a standalone fixture with mounted sensor. For networked sensors, see the NX Distributed Intelligence™ Lighting Control System.

How is the sensor programmed?

The BT WASP is programmed using the new HCS ControlHUBB Bluetooth app (formally known as the HCS NX Device Setup Tool). The app has been updated to support both NX programming and the BT WASP sensor. The app features manual sensor control and easy to use slider controls for quick and precise adjustment of timer values, light levels, sensitivity, high/low thresholds and ramp rates.

Can I manually control the sensor?

Yes. The BT WASP can be manually turned ON/OFF and dimmed from the app.

Some installations do not allow wireless communications after a device has been programmed. Can the Bluetooth radio be turned off after the sensor has been programmed?

Yes. To address this requirement, the BT WASP's radio can be turned off from the app. Hubbell recommends that all programming be verified and tested prior to turning off the radio.

Can a pin code be set to prevent unauthorized users from making changes?

Yes. During programming of the BT WASP, a security pin code can be created, which will be required to make future changes.

How can the Bluetooth radio be re-enabled if changes to the settings need to be made later?

The BT WASP sensor features a reset pin, that can be used to restore the sensor to factory defaults and to re-enable the Bluetooth radio. This will require physical access to the sensor.

How many timers does the sensor have?

The BT WASP features single and dual motion sensor timers where the dimming level and relay state can be set for each timer.

Other sensors on the market have a 30-minute max timer, why the 20-minute max timer?

To save additional energy, recent changes to the ASHRAE 90.1 Guidelines have reduced the timer delay for motion sensors from 30-minutes to 20-minutes. This sensor supports the new 20-minute maximum timer requirement for the primary timer.

What are the Dual Timers used for?

The BT WASP's dual timer mode provides the ability to set two different levels after the space has become unoccupied – perfect for applications where the area needs to be dimmed for a specific time period before turning all the way off.

Does the sensor have a photo sensor for daylighting harvesting?

Yes. The end mount BT WASP features upward and downward looking photo sensors. The surface mount version features a downward looking photo sensor.

What are the daylight harvesting modes supported by this sensor?

The BT WASP supports both indoor and outdoor daylight harvesting applications including full range dimming with auto-configuration (also known as "closed loop"), legacy dimming ("open loop") and dusk to dawn (ON/OFF) operation. A test mode is also available to verify light levels.

In addition to motion and photo sensor settings, what other settings can be changed?

Additional BT WASP settings include high/low trim settings, selection of upward/downward photo sensor, power up state and ramp rates.

Can the sensor's settings be copied or cloned to another sensor?

Yes. Using the HCS ControlHUBB app, all BT WASP's settings can be saved into device profiles and then cloned to other sensors – eliminating the need to individually program the same settings into multiple sensors.

Does the sensor have a test mode that will simulate the programmed settings?

Yes. When placed in test mode, the BT WASP will function as programmed using short timers.

Can the sensor be reset to factory defaults?

Yes. The BT WASP can be reset to factory defaults using the ControlHUBB app or via the reset pin on the sensor. When using the reset pin, pressing and holding the pin will reset the sensor settings to factory defaults. By pressing and holding the pin longer, the Bluetooth radio will be re-enabled, if it had been turned off. The sensor's LED will blink after the factory reset of settings and will blink faster after the radio has been re-enabled. This enables the sensor settings to be reset factory defaults without re-enabling the radio.

What is Intelliscope™ and how can I use it?

Intelliscope is a graphical representation of the BT WASP's occupancy data and status. Viewing the Intelliscope data while range testing will show you when the sensor is detecting occupancy. The graph also shows the occupancy state of the sensor.

What sensor mounting options are available?

The BT WASP is available in end mount and surface mount versions. For end mount sensors, an optional offset adaptor can be used to improve the field of view of the sensor where the geometry of the fixture might otherwise interfere with the sensor's field of view. The adapter snaps into a standard ½" (12.7mm) knockout on the end of the fixture and provides several mounting position choices for the sensor.

Does the sensor support high and low mount applications?

Yes. The new BT WASP continues the tradition of using the same interchangeable high/low mount 360°, 180°, aisle and half-aisle lenses used by the legacy WASP sensors – making it the perfect solution for warehouses, manufacturing facilities, gymnasiums, cold storage, and area/site lighting application.

What is the sensor's detection range?

Sensor detection range depends of the specific lens selected. Please refer to the WASP Lens specification sheet for detailed range coverage information.

Is there an IP65-rated version of the sensor?

Yes. The BT WASP is available in a low temperature\watertight\indoor-outdoor version that is IP65-rated. Operating temperature for this version is -40°F to 149°F (-40°C to 65°C).

The sensor is available in what colors?

White, Gray and Black. Note: White will be Made-To-Stock (MTS). Gray and Black versions will be Made-To-Order (MTO).

How do you order the sensor?

See product [specification sheet](#) for ordering information.