Introducing breakthrough technology that makes wireless simple, affordable and reliable.
After extensive in field testing and development, Beacon Products is proud to introduce the Beaconnect lighting control system. We have made lighting control Simple, Affordable and Reliable.

It’s as simple as Specify-Ship-Install
Beaconnect luminaires can arrive to the site pre-programmed and ready to install, yet Beaconnect has the flexibility to modify the schedules in the field at any time. This eliminates the cost and complication of field commissioning by factory experts.

Wireless without the complication & cost of a web-based system
Each luminaire operates independently and yet can communicate with each other when needed as a mesh system. This means all luminaires can be scheduled to be synchronized with sensors by group, or by zones or dimmed by time.

Safe and Secure
Beaconnect is not a web based system. It is cyber safe because the system stands independently from any existing on-site wireless systems. With no gateway requirements, there is no access through Beaconnect to other IT systems or the web.

ON-BOARD WIRELESS INTELLECT
- Built-In 2.4 GHZ Radio
- On-Board Time Chip
- Backup Solid State Battery (10-year minimum life)
- Field Replaceable

ON-BOARD WIRELESS INTELLECT
- Built-In 2.4 GHZ Radio
- On-Board Time Chip
- Backup Solid State Battery (10-year minimum life)
- Field Replaceable

Luminaire Grouping
Beaconnect allows luminaires to be grouped based on time, dim level and motion sensors. In this application, an automotive dealership leaves the front lights at full brightness until midnight. The service areas are dimmed to lower levels after those areas are closed. If anyone enters the site after hours, sensors are included at key areas to allow the site to go to full brightness.

<table>
<thead>
<tr>
<th>Time</th>
<th>Group 1</th>
<th>Group 2</th>
<th>Group 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>9 pm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12 am</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Viper Area & Roadway luminaires equipped with Beaconnect Lighting Control and Beacon's Front Row Auto Optic.
The Beacon 3-Step Process

**SPECIFY**
- Specify up to six daily dimming schedules, for each day of the week and up to 24 special dates. Times can be defined in terms of clock or astronomical time. Luminaires are grouped, but all luminaires may still maintain their own unique schedules.
- Specify motion sensor support, including cycle duration (minutes), high brightness level, and optionally, grouping multiple luminaires to a single motion sensor.
- Specify on/off control such as a photocontrol or time clock.
- Provide the above commissioning information to Beacon for factory programming.

**SHIP**
- Luminaires will be shipped commissioned from the factory with specified settings and schedules.
- Luminaires will arrive with identification labels indicating the type number and other key information, to aid the installer in matching the luminaire to the correct location on site.

**INSTALL**
- Once installed in correct locations, luminaires only need to be given the correct time and date wirelessly using a supplied USB radio and Windows laptop or tablet. Each luminaire will execute its requested settings without need for any further intervention.
- For specification and design assistance visit our website at www.beaconproducts.com/products/controls/Beacon

**Features**
- Each luminaire runs standalone independent schedules and changes are made via wireless mesh network.
- User defined dimming schedules, for each day of week and up to 24 special dates. Times can be defined in terms of clock or astronomical time. Luminaires are grouped, but all luminaires may still maintain their own unique schedules.
- On-board real time clock and calendar maintains correct time without dependence on external hardware.
- Battery backup for clock (maintains correct time for over a week without power).
- Automatic adjustment for Daylight Savings Time (can be disabled).
- Astronomical clock function (can emulate a photo control).
- Lumen maintenance function – can steadily increase light levels as luminaires age, compensating for LED and dirt depreciation.
- Manual control functions (dimming level, flash, reboot).
- Motion sensor support, including ability to group multiple luminaires to a single motion sensor (not available on all luminaire platforms).
- Advanced diagnostic features – operating hours, PCB temperature, LED voltage & current, wattage, error conditions, and other operating parameters can be downloaded from luminaires (available parameters vary by luminaire platform).
- Kilowatt-hour metering can help monitor energy savings (not revenue grade).
- Multiple commissioning options, including factory pre-commissioning, luminaire detection, and manual entry.
- Automatic thermal protection reduces LED current as the array exceeds a temperature limit, protects from high-ambient environments, day burning, etc.
- Wireless module is a pluggable daughterboard that can be replaced if needed.
General Specification

Wireless control system shall comprise a wireless mesh network of luminaires. System shall be supplied with a Graphical User Interface and USB bridge node to wirelessly interface and configure the luminaires. The luminaires will form a mesh network (subject to spacings and site conditions) allowing user access to all luminaires from a single location.

Control system shall be capable of operating luminaire completely independently, without need for fixed external control equipment (routers, servers, access points, etc.). If required, luminaires can be shipped pre-commissioned from the factory - the only effort required in the field is to install in the correct locations and update the time and date wirelessly.

Note that the PC-based GUI and bridge node are ONLY needed for user interface to the luminaires (e.g. adjusting settings, etc.). At all other times, luminaires will operate independently. Each luminaire shall have an internal RTC (real time clock) to support independent operation. RTC shall be backed with a solid state battery, providing backup power for at least four days with AC power disconnected.

For security purposes, system shall not be capable of Internet connectivity. To allow for segregation of proximate networks, control system shall support use of 16 channels at 2.4 Ghz, and support use of encryption.

Controls shall be integrated with LED engine or array of luminaire. It shall offer diagnostic capabilities including PCB temperature, dimming voltage (where applicable), and DC voltage and current readings. Estimated power and energy measurements shall be available.

Luminaires shall offer optional PIR motion sensors integrated with the wireless control system. Each sensor may be engaged to control its host fixture; or satellite luminaires within its group, or up to four motion zones, or the entire network.

Product Solutions

VIPER Luminaire
The Viper luminaire is available in two sizes with a wide choice of different LED wattage configurations and optical distributions designed to replace HID lighting up to 1000W MH or HPS and with 5 different mounting options for application in a wide variety of new and existing installations. The Viper is the Cutting Edge in LED style, performance and technology.

ORBEON Luminaire
Orbeon is an energy-saving high performance LED parking garage and canopy luminaire which utilizes high powered LEDs, precise efficient optical control, and features application versatility through integrated intelligent control options. Orbeon is designed to replace up to 175 Watt HID lamps with 60 watts, and at the same time reduce maintenance by delivery of over 100,000 hours of projected life.

TRAVERSE LED Luminaire
The Traverse is a high performance LED wall pack. This contemporary, lightweight wall pack is ideal for new construction or retrofit and compliments a wide range of construction styles. The Traverse is designed to meet strict lighting codes with environment-friendly full cutoff and is available in 6 different distributions. It is a suitable replacement for up to 400 watt HID.

To find more beaconnect-compatible products visit www.beaconproducts.com.
ALERA LIGHTING
ARCHITECTURAL AREA LIGHTING
BEACON PRODUCTS
COLUMBIA LIGHTING
COMPASS
DEVINE LIGHTING
DUAL-LITE
HUBBELL CONTROL SOLUTIONS
HUBBELL INDUSTRIAL LIGHTING
HUBBELL OUTDOOR LIGHTING
KIM LIGHTING
KURT VERSEN
LITECONTROL
PRESCOLITE
PROGRESS LIGHTING
SPAULDING LIGHTING
SPORTSLITER SOLUTIONS
STERNER LIGHTING
WHITEWAY

2041 58th Avenue Circle East
Bradenton, FL  34203

t  800.345.4928
f  941.751.5535

rev. #1.18.2016