Wireless Lighting Control Solutions
Commercial Grade Lighting Control Systems Just Got Better

Douglas Lighting Controls® offers a complete stand-alone wireless system to control lights in a wide variety of applications. The system includes wireless fixture controllers, switches, and occupancy/daylight sensors all using Bluetooth® wireless technology. In addition to the system devices we also offer a fixture mounted controller and sensor with Bluetooth technology providing wireless communication and occupancy/daylight control in one device.

Each Bluetooth enabled device is its own wireless node for sending, receiving and sharing control commands through a wireless mesh network. Expandability is easy with each device passing information to the next thus expanding the reach and control throughout the network. A Gateway device is available for connectivity into Douglas Lighting Controls Dialog® centralized system.

Architectures – Bluetooth Wireless Network

- Bluetooth wireless technology provides reliability, redundancy, and easy expandability
- Devices communicate over a secure Bluetooth wireless network
- Smartphones with Bluetooth antenna can configure and control lights with the complimentary Douglas Lighting Controls App
- Network bridges and onsite internet are not required
- Switches and Controller are line powered for long term reliability and performance. Sensor is powered by Controller
- Complies with ASHRE 90.1 and Title 24
Devices

**With Wireless Controls...**

**Increase Energy Savings**
The addition of controls to a lighting system reduces your energy costs by providing the right amount of light when needed and reducing lighting loads when appropriate either through schedules, commands or sensor triggers. With the inclusion of wireless controls, Douglas Lighting Controls systems continue to provide reliability, security and advance functionality, as well as energy savings, to meet the needs of facility operators.

**Meet the Needs of More Projects**
New or renovated buildings are using lighting controls to reduce energy consumption. When adding controls into different areas of a building, running networked lighting control wires is not always feasible. Wireless controls provide a solution for adding lighting controls into these areas while providing a faster, easier, and cost effective installation and commissioning experience.

**Save on Installation**
Avoid running and connecting hardwired network communication to control devices to save time and money. Our system of devices each acts as a node to respond to commands or to pass on information across the network.

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**Simplify Commissioning**
The Plug ‘N Control™ wireless lighting systems do make commissioning easier. Plug in the devices, power them up and you have a functioning system. No addressing or networking set up needed. Then use our smartphone App to recognize fixtures and configure them for your precise needs.

**Energy Management Ready**
A lighting system is one of the largest energy users in a building. To optimize the lighting system, facility managers have relied on code requirements and past experience to set control strategies. What if there was a way to optimize the system by locating system inefficiencies and providing an easy way to change them?

CheckLight™ from Douglas Lighting Controls® is an energy management platform that helps optimize the energy use of your lighting system. Facilities that require an Energy Management system can use our CheckLight platform to gather data from CheckLight equipped devices to measure, report, and control their lighting system from a web-based application.

**Secure Connections**
Douglas Lighting Controls Bluetooth® Wireless control products make use of ultra-secure mesh network protocols. Our Bluetooth® Wireless device can only associate into a secure wireless network using a network key exchange that features 128 bit Advanced Equipment Standard (AES) for message encryption. We also use technologies to create Message Authentication Codes to verify the integrity and authenticity of a message. Together, these technologies are used to create a high level of security and to prevent eavesdropping, replay, and man-in-the-middle attacks.
Devices

**Douglas Lighting Controls Bluetooth Controller**
- Converts fixtures into wirelessly controlled luminaires
- Provides individual or multi-fixture control
- ON/OFF (relay) and 0-10v dimming control of the fixture(s) through a Douglas Lighting Controls Bluetooth Switch or App
- 120/277/347VAC
- 20A Plug-Load Control
- CheckLight Equipped

**Douglas Lighting Controls Bluetooth Commissioning & Control App**
- For Bluetooth enabled iOS Smartphone or iPod Touch
- Commissioning: Light levels, zones, pre-sets, time-out
- Control: Dimming, ON/OFF, pre-sets

**Douglas Lighting Controls Bluetooth Switches**
- Fingertip control over lights in defined spaces
- One zone dimmer, 4-button, 8-button
- 120/277VAC or 120/347VAC models
- Faceplates sold separately

**Douglas Lighting Controls Bluetooth Sensor**
- Dual Technology (PIR and Bluetooth beacon) occupancy sensor
- Daylight sensor
- 1” lens, high bay lens (38 ft.)
- Easily installed into soft ceiling tiles by using the innovative cutting head thus eliminating the need for tools
- Power provided by Bluetooth Controller (12VDC)

**Douglas Lighting Controls Bluetooth Fixture Controller & Sensor**
- Provides automated individual and group control of light fixtures
- Occupancy (PIR) and daylight sensor
- ON/OFF/0-10V dimming
- Bi-level light functionality
- 40’ coverage radius on 40’ ceiling
- Powered by the fixture

**Douglas Lighting Controls Bluetooth Gateway**
- Sends and receives commands between wireless system and Dialog controller
- Part of the Dialog 2-wire (18/2) network

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