

Lighting Automation in Commercial Properties

Working to deliver enhanced energy savings and employee productivity

Business operations are increasingly complex. Not only do owners and operators of commercial offices need to worry about people, processes and product, they must determine how to create and maintain optimal environments to keep stakeholders happy, comfortable and engaged.

To further complicate matters, operational costs continue to rise. According to the U.S. Department of Energy, the two systems that account for almost half of the energy used by a typical office building are heating, ventilation and air conditioning (28%) and lighting (20%). As the evolution of smart technology continues, lighting controls and systems are becoming an integral part of comprehensive building automation systems (BAS), as well as a critical driver of employee health and well-being.



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Leverage Human-Centric Lighting

Research has shown that artificial light has tremendous biological and physical effects on humans. By manipulating flexible LEDs and innovative control systems, commercial office buildings can incorporate a healthy circadian stimulus that produces better employee outcomes.

Experience Significant Cost Efficiencies

Through a platform built on BACnet standard architecture that leverages a single WebCTRL® interface, users can monitor and manage networked lighting controls as part of an ongoing energy management strategy that delivers up to 50% energy savings over non-controlled LED lighting.

Deliver Flexibility to End-Users

Intuitive, fully customizable digital touchscreen panels can be wall-mounted in individual spaces, allowing occupants with minimal training and operational knowledge to access preset scenes in real time that augment the environment for certain stakeholders, activities and times of day.

The Value of Best-in-Class Products and Systems

Inside and outside of commercial office buildings, during traditional work hours and after, lighting can have a dramatic impact on how key stakeholders interact with a business. For that reason, flexibility in lighting is essential to better manage facilities; keep employees, clients and customers safe; optimize occupant comfort; and ensure building security.



HUMAN-CENTRIC OFFICES Altering light levels and zoning in each room, while introducing circadian-based lighting, can help occupants experience increased energy, alertness and vitality, as well better sleep patterns and decreased absenteeism.



GATHERING SPACES Utilizing activity-based controls with upgraded LED high-bay fixtures, spaces — from lunchrooms to workout spaces to waiting rooms — can be tuned to best suit their intended activity(s), resulting in lower output and energy reduction.



OUTDOOR ENVIRONMENTS Wireless lighting dimming and switching controls and motion sensors can help reduce lighting output at set schedules, while activating or dimming as needed, resulting in 40% energy savings while addressing safety concerns.

When surveyed by the American Society of Interior Design, nearly 70% of employees voiced dissatisfaction with their office's lighting. Ultimately, by applying the 3/30/300 rule, companies can expect to experience a small energy savings directly impacting OpEx and a 10x larger CapEx savings due to enhanced space utilization based on sensor network data and analysis, while improved employee well-being delivers the greatest benefit to the organization.

To begin experiencing the benefits of lighting automation in your commercial office space or multi-building campus, contact the experts at Control Service Company.

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