

Department of Sanitation - NYC Lighting Controls

Profile:

Completed in 2012, the DSNY Garages are unique facilities designed to store and repair NYC Department of Sanitation vehicles.

Challenges:

Safety and an energy conscious City caused DSNY to opt for a lighting.

Smart Design + Smart Technology = High performance control system that included Daylight Harvesting.

Solutions:

- User-friendly and intuitive interface
- Distributed controls to meet room to room, space to space demands.
- Energy conservation
- 24/7/365 monitoring, alarming and support.

Distech Control lighting control panels helped DSNY achieve the proper balance between natural daylight and electrical lighting.



When designing lighting controls for the DSNY project, RGSB was looking for a lighting control system that would be durable, adaptable and allow for flexibility in configuration.

The DSNY had unique requirements for their lighting: Time of day, daylight harvesting, motion sensing, key switched overrides and global commands. DSNY was looking for a long term partnership to utilize this technology throughout their numerous facilities.

By utilizing effective Daylight Harvesting strategies, DSNY can reduce or eliminate the need for heat-producing electric lights during the day.

The concept of Daylight Harvesting is simple. Digital photosensors detect daylight levels and automatically adjust the output level of electric lighting to create a balance. Dimming ballasts and photo receptors can reduce electric lighting loads proportional to the amount of daylight that enters the space. The result is energy savings.

Nationally recognized for the research, design and development of Daylight Harvesting products, RGSB installing Distech Controls was selected by DSNY to provide NYC with a 100% scalable system utilizing Daylight Harvesting principles along with a list of customized features including digital connectivity for easier installation, interface between lighting and temperature systems, and web based user interface and monitoring. The Distech Controls System is a 100% digital solution to lighting control. Panels and switches daisy chain together linking up to 128 devices using Cat. 5 patch cable with RJ45 connectors in any sequence. This particular application included digital switches, photosensors and relay panels that allowed for a distributed layout.

Photosensor placement was simple because the MicroPanel features a long list of locally and remotely adjustable settings which simplify photosensor placement in any architectural setting. Photosensor adjustments can be done both locally and remotely. Indoor photosensors with multiple trigger points provide control of multiple dimming or switching zones. Manual switches are available in a number of configurations from simple SPST wall switches to digital.

Daylight Harvesting is just one strategy to shed total load during peak consumption hours. The Distech Controls Lighting Control system is a complete lighting control system that minimizes energy wasted with the ability to satisfy a multitude of safe and efficient lighting.



Case Studies and Testimonials

Distech Control lighting control panels helped DSNY achieve the proper balance between natural daylight and electrical lighting.

Top-lit applications present a straightforward Safe lighting control system strategy for the Dept. of Sanitation NYC.

Daylight harvesting is the buzz word in the lighting controls industry because studies indicate that electric lighting energy use can be reduced as much as 84% when supplemented with free, natural daylight. It has become increasingly accepted as research also continues to reveal the health and performance benefits associated with properly commissioned systems.

Lighting Control Technology

The Distech Control Lighting Solution is RGSB's 100% digital lighting control system that uses state-of-the-art technology to provide innovative lighting control solutions.



Distech Lighting Controls™

This distributed panel is part of the Distech Controls Building Solutions system.



Universal Indoor Photosensor

Designed to fit both ceiling and luminaire mounted applications.



Digital Switches

Digital switches connect directly to the Distech Control System, and can be set to override photocell triggers or programming