



DESIGN REQUIREMENTS

LIGHTING CONTROL DEVICES

GENERAL INFORMATION

- 1.1 Appropriate lighting design and associated controls are integral to the University's goals to reduce energy consumption and associated carbon footprint.

DESIGN REQUIREMENTS

- 2.1 Interior lighting controls shall be incorporated in design to comply with the New York City Energy Conservation Construction Code.
- 2.2 Designs for lighting will incorporate the most aggressive energy efficient technologies available in accordance with the University's requirement to save energy and reduce carbon footprint.
- 2.3 All lighting circuits will be installed with daylight controls (where practical), occupancy sensors, smart lighting panels and any and all technologies aimed at turning off the lights when they are not needed.
- 2.4 Since control technologies are changing frequently, review components with the Operations Department for acceptance prior to final design documents so as to come to a conclusion on the best equipment to install from a maintenance perspective.
- 2.5 Ceiling mounted lighting sensors shall be located at least 4 feet from air diffusers.
- 2.6 Lighting control designs must be reviewed and approved by the Operations Department prior to final design submission. The design engineer will highlight the innovative technologies and energy saving features at that time.
- 2.7 The designer shall indicate egress and exit lighting on emergency circuits and security lighting which will not be switched off under any circumstances. The security and emergency egress lighting plan will be presented to the Operations Department before the final design is issued.
- 2.8 Wall-mounted dual technology occupancy sensors shall be utilized for small spaces. Ceiling-mounted occupancy with wall-mounted override switches shall be utilized for larger spaces in accordance with the manufacturer's requirements.

All sensors shall be programmed in accordance with the University's requirements.



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CONSTRUCTION REQUIREMENTS

- 3.1 Provide solid state, single-pole, double-throw dry contacts rated to operate connected relay or contactor coils or microprocessor input.
- 3.2 Outdoor units shall be sealed with a weather-tight housing, resistant to high temperatures and equipped with sun-glare shield and components to prevent ice accumulation.
- 3.3 Lighting contactors will be provided with spare contacts.
- 3.4 Install low voltage wiring in ½ inch flexible metal conduit.
- 3.5 Lighting control equipment will be installed for easy access to maintenance and manipulation of the controls. Under no circumstances will this equipment be above ceiling or in any location requiring a ladder or lift to access.
- 3.6 The installing contractor will provide a full training on the features of the lighting control system to the electric and controls department prior to acceptance.

REFERENCE

- 4.1 The applicable CSI Specification Section is 260923.