

Description:

The purpose of the section is to highlight the current applicable UMCP Design Standards for the design, selection and installation of lighting control systems.

Related Sections:

- TBD

Effective Date:

- July 10, 2009

Applicable Standards:

- NEMA ICS 2
- ANSI/NEMA ICS 4
- NEMA ICS 6

General Requirements:**1. Required Submittals:**

- Shop Drawings: Indicate control device enclosure wiring diagrams and panel layout drawings
- Product Data: Provide data on each control device specified
- Operating and Maintenance Instructions: Include instructions on adjusting, repairing, cleaning, and lubricating each control device specified

2. Product Requirements:

- Control Switches and Stations
 - Description: Heavy duty, oil-tight control switches and stations manufactured to NEMA ICS 2
 - Contact Ratings: Class A150
- Photocells Switch
 - Description: Photocell switch manufactured to NEMA ICS 2
 - Ratings: Contact Ratings: Class A150
 - Enclosure: Gasketed, cast ferrous alloy box with conduit hub
- Relays
 - Description: Relays manufactured to NEMA ICS 2
 - Magnetic Control Relay: Class A300
 - Time-Delay Relay: Class A600
 - Ratings:
 - Contact Ratings: Class A150
 - Coil Voltage: 120 volts, 60 Hz., Single Phase
 - Enclosure: NEMA Type 1 for interior and NEMA type 4 for exterior use
- Time Switch
 - Description: Clock timer manufactured to NEMA ICS 2, with astronomical dial
 - Ratings:
 - Contact Ratings: Class A150; SPST
 - Coil Voltage: 120 volts, 60 Hz., Single Phase
 - Dial Time: 24 hours, 7 days
 - Enclosure: NEMA Type 1 for indoor applications, and NEMA Type 4 for outdoor applications

- Control Device Enclosures
 - Description: Shop, fabricate and wire control device enclosures to NEMA ICS 1, for groupings of more than one device
 - Use hinged cover enclosures under provisions of 26.05.00
 - Terminal Blocks: ANSI/NEMA ICS 4
 - Fabrication: Shop assemble to NEMA ICS 6 - Use plastic wiring through to route internal wiring

- Installation Requirements
 - Install control devices in accordance with manufacturer's instructions
 - Install individual components in enclosures
 - Connect control devices to systems controlled, to achieve proper system operation

- Adjustments
 - Adjust time delay relays and clock timers to achieve specified system operation