

DIVISION 16 - ELECTRICAL

Section 16485 - Lighting Controls and Contactors

Introduction

Lighting contactors are to be generally used for *the* control of outdoor lighting or special effect lighting. Lighting contactors should generally be controlled via a combination of an *auto rewind* time clock and a photocell. *This is* for areas which require lighting up to a certain time and after the building is no longer in use and do not need to be on. For lighting in areas *requiring all night illumination control shall be a photocell on and off.*

Part 1 - General

- Provide submittals for contactors and associated time clocks and photocells.

Part 2 - Products

- *Photocells are the preferred control and should be adequate for the loading required where used for only one or two fixtures. Where used for more than two fixtures tie control through a contactor.*
- *Photocells shall have override switch.*
- *Time clocks shall be electronic astronomical programmable units with capacitor back up. Clock shall not need to be reprogrammed in case of a power outage. Time clocks shall have adjustable longitude and override switch.*
- Use NEMA size contactors rated for the size and type of loads required. Contactors shall be electrically held. Approved manufacturers are GE, Allen Bradley, Cutler Hammer, Square D, or prior approved equal.

Part 3 - Execution

- Locate time clocks and contactors in accessible locations in the appropriate electric room where the equipment served is located.
- Photocells should be located such that the light from the controlled lights will not cause the photocell to operate. Photocells should be located at a readily accessible location.

End of Section 16485