

CSC (COLOR WHEEL SYNCHRONIZATION CONTROL/PH SERIES)

DISCONTINUED - LIMITED AVAILABILITY

Project:

Type:

Catalog Number: **CSC**

System Component: **Illuminator**



Use With:

- ◆ PH3000/PH3100
- ◆ PH1000/PH1100
- ◆ Synchronizes up to Eleven Powerhouse™ Series Illuminators

DESCRIPTION: The **Color Wheel Synchronization Control (CSC)** system is designed to synchronize the changing of colors in a multi-illuminator application. It does NOT control the speed at which the colors change. For the PH3000 and PH1000, the color wheel speed is 1 RPM, which equates to 15 seconds per color on a four-part color wheel. For the PH3100 and PH1100, the color wheel speed is 3.6 RPM which equates to about 4 seconds per color. The CSC system can synchronize up to a maximum of 11 Lumenyte PH series illuminators that function as a single system. The illuminators of the CSC system include a single *Master Illuminator* (CSC-M) which can drive up to ten *Slave Illuminators* (CSC-S). There is also a limitation to the distances between the illuminators and the gauge of the wires, due to voltage drop (See Note).

NOTE: Calculations are required based upon each unit having a 30 watt load at line voltage. For runs greater than 100 feet but less than 400 feet (122 m) use number 10 gauge wire (or larger). For runs under 100 feet (30.5 m) use number 12 gauge wire (or larger).

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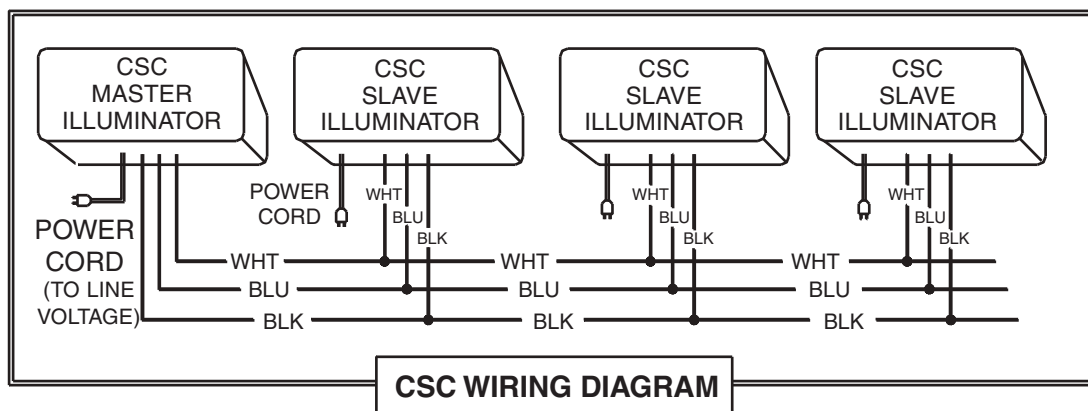
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Ordering Information:

Illuminator - CSC-M = Master
Illuminator - CSC-S = Slave(s) 10 maximum

Installation

There are three lead wires (black, white and blue, which are AC control lines) on all CSC equipped illuminators: The BLACK wire is the “hot” wire, the WHITE wire is the “neutral” wire, and the BLUE wire is the “signal” wire. These three wires need to be connected in parallel to the three wires of the next CSC unit to function properly. Note that the Master Illuminator is the source of power for all the Slave Illuminators’ color wheels. If power to the Master is cut off, the Slave's color wheels will stop turning.



Each Illuminator must be connected to an appropriate line voltage power source.

For installation of a remote wall switch (provided by others), the electrician must identify and disconnect the hot wire that leads to the color wheel motor in the Master illuminator. Slave illuminators require no alterations. After the hot wire is disconnected from the original power source in the Master CSC unit, the electrician may reconnect this wire to another power source which is intended for a remote controlling application. The BLUE signal wire should not be altered.

Operation

The CSC system is designed to synchronize the color wheel of the CSC illuminators. It does not control the speed of the motors.

The **Master** has two push buttons: 1) Power On/Off push button - Controls all power to the illuminator. 2) Color Wheel On/Off push button - Turns ALL the color wheels of the CSC illuminators on or off. It also synchronizes ALL the color wheel motors when it is on.

The **Slave** also has two push buttons: 1) Power On/Off push button - Controls all power to the illuminator. 2) Color Wheel On/Off push button - Turns ONLY the color wheel motor of that particular slave on or off. However, the Color Wheel On/Off switch of the Master Illuminator must be ON for the Slave's Color Wheel On/Off push button to work. This enables the selected Slave to be stopped at a color while other Slaves are synchronized to the Master.