# Control Units for CCS LED Lights

Please select a best-suited control unit according to your intended use and objective.

## **Analog Control Units**

PSCC-60048

## High-capacity 582-W Constant-current Control Unit

PSCC-60048 Analog Control Units provide a high capacity of 582 W at a constant current. You can change the current to control the light intensity. Light is output with 1 channel and 1 connector. This Analog Control Unit provides 256 different levels of light intensity control. Perform external control through parallel, EIA-485, or Ethernet communications. The built-in error detection can also tell when a cooling fan is not spinning fast enough or is stopped, when an LED circuit is disconnected, or when a bulb is burned out due to a short.

\*The error detection conditions depend on the connected Lights.



## **Increased Safety with Interlock**

Maintain safety during work with the power OFF and key switches. You can prevent the Lights from being turned ON by anyone but the key manager, or from being turned ON accidentally when setting up Lights or performing maintenance.

\*Locking is also possible when using parallel communications for external control.

\*Refer to Analog Control Unit for LFD Light Unit PSCC-60048 Instruction Guide for specific application information.



## **Ethernet Communications**

You can build a Light control system based on Ethernet communications.

Also you can control the Lights with parallel or EIA-485 communications.

\*Refer to the Connecting EIA-485 Communication Cables on the CCS website for information on multi-drop wiring connections.

You can download this information from the product website page



## **Ethernet Communications Specifications**

Communications protocol	TCP/IP, UDP/IP	
Standard	IEEE 802.3, 802.3u, 802.3x	
Baud rate	10 Mbps or 100 Mbps (Automatically detected.)	
Transmission medium	10Base-T, 100Base-TX	

### Parallel Communications Connection Specifications

Rated input voltage	24V DC	
Maximum input voltage	26.4V DC	
ON voltage/ON current	20V DC min./6 mA min.	
OFF voltage/OFF current	3V DC max./1 mA max.	
Response time	Approx. 100 ms	
Input impedance	6.8 kΩ (per terminal)	



FIA-485 Communications Specifications

Opecinications		
Protocol	EIA-485 compliant	
Baud rate	19,200 bps	
Data bit length	8 bits	
Parity bit	None	
Stop bits	1 bit	

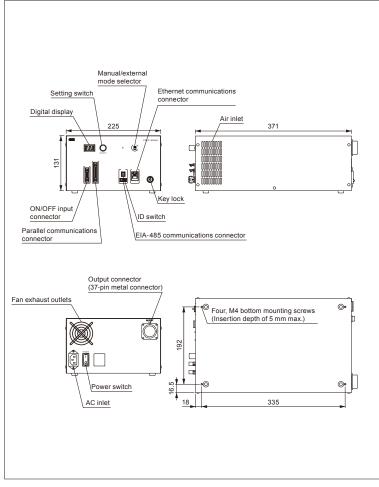
<sup>\*</sup>Refer to Analog Control Unit for LED Light Unit PSCC-60048 Instruction Guide for specific application information.



## **Specifications**

_	PCCIII	outions				
М	odel	PSCC-60048				
Direct number		2000846				
Lighting method Consta		Constant lighting				
Dr	ive method	Constant-current system				
Light control method		Variable-current control				
Nu	mber of channels	1 channel				
Applicable Lights (rated)		43V DC max., 582 W max. (including 30 W max. for fans)				
Light intensity control		Manual and external intensity control Front manual/external switch (MODE)				
	Manual control	Set any of 256 levels via the setting switch. Press and hold the switch for 2 seconds to lock the intensity value				
		Parallel communications 8-bit intensity value setting (B0 to B7) and write signal (WR)				
		EIA-485 communications Command input via EIA-485 communications				
	External	Ethernet communications Command input through TCP/IP UDP/IP communications				
		External control mode can be selected by pushing the setting switch while turning ON the power to the Control Unit.				
Lighting contro	hting control	Parallel bit input OFF signal (ON/OFF)				
		EIA-485 communications Command input through EIA-485 communications				
		Ethernet communications Command input through TCP/IP UDP/IP communications				
	A-485	ID Set via the front ID switch (00 to 03). Maximum of 4 connected Units.				
communications settings		Terminating resistance Set via the front ID switch. (Terminating resistance is connected only when ID is set to 00				
Error detection		LED burnout detection, open circuit Front digital "E01" display				
dis	splay	LED burnout detection, short circuit Front digital "E02" display				
		Light fan slowdown or stoppage Front digital "F01" to "F15" display				
		Communications error detection Front digital "E04" display				
		Connector unconnected detection Front digital "E04" display				
		Internal Power Supply error was detected. Front digital "E05" display				
	ror detection	Parallel communications Output to pins 19 and 20. Photocoupler isolation. Open-collector output. Closed for alarm (Load current: 10 mA max.)				
ou	tput	EIA-485 communications Confirmed with status command via EIA-485 communications. (Command sent at error occurrence.				
		Ethernet communications Confirmed with status command via TCP/IP or UDP/IP communications. (Command sent at error occurrence.)				
Input power supply		100 to 240 VAC (+10%, -15%), 50/60 Hz				
Pow	ver consumption (typ.)	750 VA				
Opera	ating temperature and humidity	Temperature: 0 to 40°C, Humidity: 20% to 85%RH (with no condensation)				
÷	ge temperature and humidity	Temperature: ~20 to 60°C, Humidity: 20% to 85%RH (with no condensation)				
_	oling method	Forced air cooling				
	E marking	Safety standard: Conforms to EN 61010-1, EMC standard: Conforms to EN 61326-1, Class A.				
	ironmental regulation	RoHS compliant				
		Steel plate, thickness of cover: 1.0, thickness of chassis: 2.0, N3 leather tone finish				
		7,000 g max.				
_	cessories	2 meter long 3-prong power cord with ground terminal (1), keys (2)				
		2 mater long a prong power dord with ground terminal (1), heyo (2)				

## Dimension Diagrams (Unit: mm)



## **Options**

External Control Cable

