

High-capacity constant current Analog Control Units

With error detection function

(Common for PSCC series)

- Stopped cooling fan
- LED not lighting up



Adjust light intensity to
1,000
levels



PSCC-30048(A)
(300 W capacity)



PSCC-60048(A)
(600 W capacity)

With key-lock function
(PSCC-60048(A) only)



The supplied AC cord is for use with 100 to 120 VAC.
If you want to use the Control Unit with 200 to 240 VAC,
you must procure another appropriate AC power cord.

Features

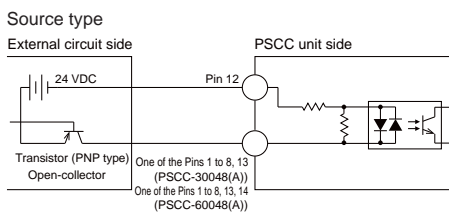
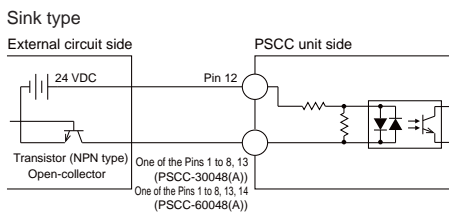
- High-capacity constant current Analog Control Units. 300 W and 600 W models are available.
- The light intensity can be set to any of 256 or 1,000 different levels. (For parallel communications: Set to any of 256 levels)
- You can adjust the light intensity separately for each Light Unit circuit. (With Ethernet or EIA-485 communication)
- External control compatible with parallel, EIA-485 and Ethernet communication using a single unit.
- The error detection function is able to detect insufficient speed or stopping of the Light Unit cooling fan and bulb burn-out errors by disconnected or shorted LED circuit.

Example Connections

Refer to the "Instruction Guide" for details.

Parallel communication

Example connections of external signal



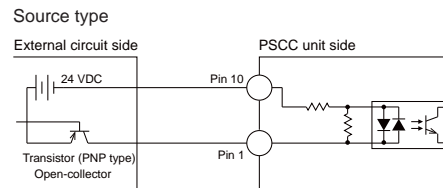
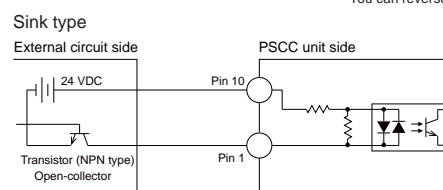
Photocoupler	Data
ON	0
OFF	1

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

ON/OFF input

Example connections of external signal

You can reverse the operation logic.



If an off (on) signal is set from any of the following, the Light Unit will be off (on) regardless of the status of the other signals: ON/OFF input connector, EIA-485 communication, and Ethernet communication.
The descriptions in the parentheses indicate the operation in the reversed logic.

Photocoupler	Light Unit status
ON	Not lit. (Lit.)
OFF	Lit. (Not lit.)

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

- PD3
- PD2
- STU-3000
- PSB
- POD
- PTU2
- PF
- CN-4024-2-EIPT
- PB-2430-1
- CC-ST-1024
- BB
- PJ2
- PJ
- CC-PJ-0707
- PSCC
- PSB4-30024
- PSB3-30024
- Band-Pass Filters
- Lens Filters
- Diffusion Plates
- Polarizing Plates
- Light Control Films
- Brackets
- Fixtures, etc.
- SM/EL Cables

Specifications

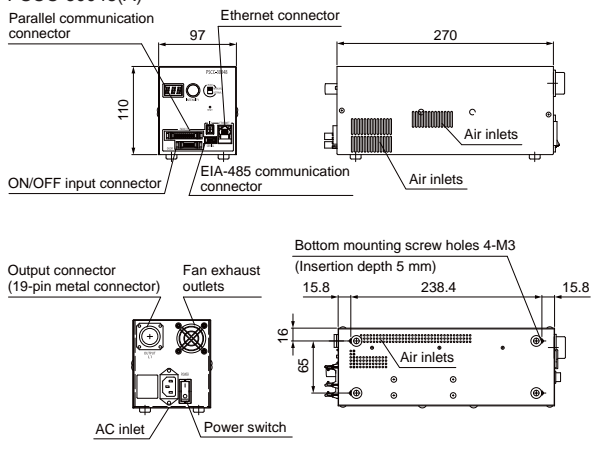
Model	PSCC-30048(A) / PSCC-60048(A)	
Lighting method	Continuous lighting	
Drive method	Constant-current system	
Intensity control method	Variable-current control	
Number of channels	1 channel	
Number of circuits	PSCC-30048(A): 7 circuits max. (Light intensity can be adjusted for each Light Unit circuit.) PSCC-60048(A): 15 circuits max. (Light intensity can be adjusted for each Light Unit circuit.)	
Applicable Light Unit (rated)	PSCC-30048(A): 43 VDC or less and 293 W max. (36 W max. of which is for the fan) PSCC-60048(A): 43 VDC or less and 602 W max. (50 W max. of which is for the fan)	
Intensity control	Manual and external intensity	Front manual/external switch (MODE)
	Manual	Set any of 256 or 1,000 steps via the setting switch. Press and hold the switch for 2 seconds to lock the intensity value.
External	Parallel communication	8-bit intensity value setting (B0 to B7) and write signal (WR)
	EIA-485 communication	Command input via EIA-485 communication
	Ethernet communication	Command input via TCP/IP or UDP/IP communication
ON/OFF control	Parallel bit input	OFF signal (ON/OFF)
	EIA-485 communication	Command input via EIA-485 communication
	Ethernet communication	Command input via TCP/IP or UDP/IP communication
	ON/OFF logic can be selected by pushing the setting switch while turning ON the power. 25H or 99H: Normal logic (default) 25L or 99L: Reversed logic	
EIA-485 communication settings	ID	Set via the front ID switch (00 to 03). Maximum of 4 connected units.
	Terminating resistance	Set via the front ID switch (terminating resistance is ON only when the ID is 00).

Parallel communications: Adjustment to 256 levels only

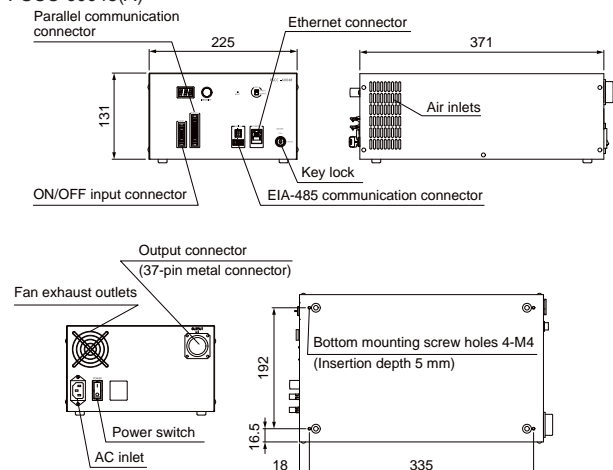
Error detection display	Burnt-out LED detection (open circuit)	"E01" is displayed on the front-panel digital display.
	Burnt-out LED detection (short circuit)	"E02" is displayed on the front-panel digital display.
	Light Unit fan speed decrease/stop detection	"F01 to F07" is displayed on the front-panel digital display (PSCC-30048(A)). "F01 to F15" is displayed on the front-panel digital display (PSCC-60048(A)).
	Control Unit fan speed decrease/stop detection	"E03" is displayed on the front-panel digital display.
	Light Unit communication error detection	"E04" is displayed on the front-panel digital display.
Error detection output	Connector disconnection detection	"E04" is displayed on the front-panel digital display.
	Internal Control Unit error detection	"E05" is displayed on the front-panel digital display (PSCC-60048(A) only).
	Parallel communication	Output at pins 19 and 20: Photocoupler insulation, open collector output, short circuit at alert (load current of 10 mA or less)
Input power supply	Power consumption (typ.)	PSCC-30048(A): 360 VA, PSCC-60048(A): 750 VA
	Operating temperature and humidity	Temperature: 0 to 40°C, Humidity: 20% to 85%RH (with no condensation)
Storage temperature and humidity	Operating temperature and humidity	Temperature: -20 to 60°C, Humidity: 20% to 85%RH (with no condensation)
	Cooling method	Forced air cooling
CE marking	Safety standard: Conforms to EN61010-1, EMC standard: Conforms to EN61326-1 Class A	
Environmental regulations	RoHS compliant	
Material, coating, surface processing	Steel plate, Thickness of cover: 1.0, Thickness of chassis: 1.6 (PSCC-30048(A)), 2.0 (PSCC-60048(A)), N3 leather tone finish	
Weight	PSCC-30048(A): 3,100 g max., PSCC-60048(A): 7,000 g max.	
Accessories	PSCC-30048(A): 3-prong AC cord with ground terminal (2 m) x 1, Instruction Guide x 1 PSCC-60048(A): 3-prong AC cord with ground terminal (2 m) x 1, Instruction Guide x 1, key x 2	

Dimensions (mm)

PSCC-30048(A)



PSCC-60048(A)

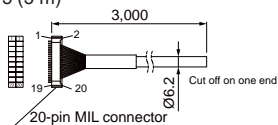


Options

These are cables for parallel and EIA-485 communication. Select yours to match your control method.

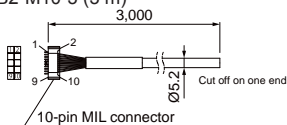
Parallel communication cable

EXCB2-M20-3 (3 m)



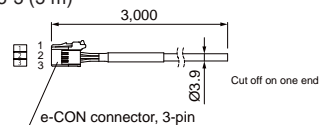
ON/OFF input cable

EXCB2-M10-3 (3 m)



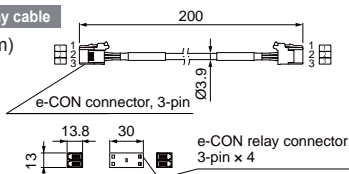
EIA-485 communication cable

EXCB2-E3-3 (3 m)



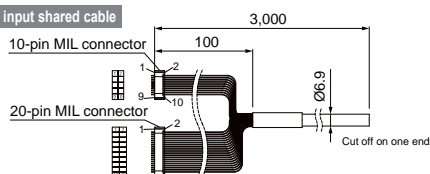
EIA-485 communication relay cable

EXCB2-E3-E3-0.2 (0.2 m)



Parallel communication / ON/OFF input shared cable

EXCB2-M10M20-3 (3 m)



Relay connector

ECNR-E3CN4

You can inquire using our website.

- Sample Testing
- Light Unit Selection
- Free Product Trial
- Custom Orders
- Product Details
- Pricing/Quotation
- Discontinued Products