Analog Control Units (Constant Current)

PSCC series

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High-capacity constant current Analog Control Units

With error detection function
(Common for PSCC Series)
• Stopped cooling fan
• LED not lighting up

Ethernet Enabled

PSCC-30048
(300 W capacity)

PSCC-60048
(600 W capacity)
With key-lock function
(PSCC-60048 only)

CE Compliant

The supplied AC cord is for use with 100 to 120 VAC. CCS recommends using the following with 200 to 240 VAC.
Cable: GTCE-3 x 1.0 mm² (Kawasaki Electric Wire) Connector: KS-31AY (Kawasaki Electric Wire)

Characteristics

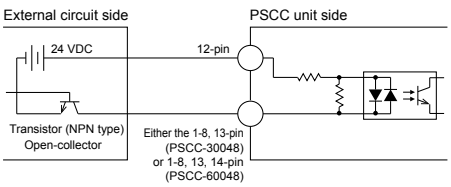
- These are high-capacity constant current Analog Control Units. There are 300 W and 600 W types.
- Light intensity control is performed by varying the current. Although an Analog Control Unit, it is adjustable with intensity settings in stages.
- Light intensity can be set to one of 256 levels.
- External 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

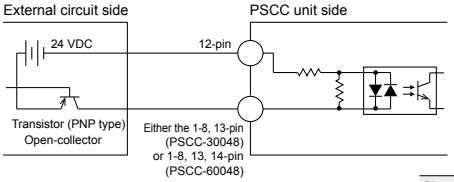
* Refer to the “Instruction Guide” for details.

Parallel communication
Example connections of external signal

Sink type



Source type

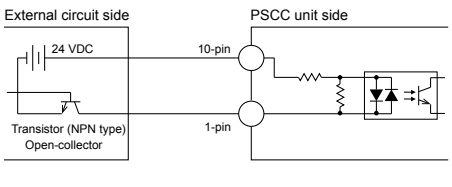


Photocoupler	Data
ON	0
OFF	1

Connection specifications					
Rated input voltage	Maximum input voltage	ON voltage/ON current	OFF voltage/OFF 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

Sink type



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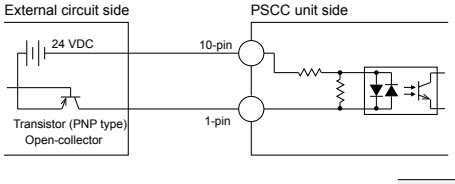

* If settings were performed from the ON/OFF input connector, EIA-485 communication, and Ethernet communication, the Light Unit turns off if the off signal is set for even one of these.

Photocoupler	Light Unit status
ON	Off
OFF	On

Connection specifications					
Rated input voltage	Maximum input voltage	ON voltage/ON current	OFF voltage/OFF 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)

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http://www.ccs-grp.com/dl/

Specifications

Model		PSCC-30048	PSCC-60048
Lighting method		Continuous lighting	
Drive method		Constant-current system	
Intensity control method		Variable-current control	
No. of channels		1 channel	
Applicable Light Unit (rated)		PSCC-30048: 43 VDC or less and 272 W max. (15 W max. of which is for the fan)	
		PSCC-60048: 43 VDC or less and 582 W max. (30 W max. of which is for the fan)	
Intensity control		Manual and external intensity	Front manual/external switch (MODE)
	Manual	Set any of 256 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
		External control mode can be selected by pushing the setting switch while turning on the power.	
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
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).
Error detection display		Burnt-out LED detection (open circuit)	"E01" is displayed on the front-panel digital display.

Error detection 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).
		"F01 to F15" is displayed on the front-panel digital display(PSCC-60048).
	Control Unit fan speed decrease/stop detection	"E03" is displayed on the front-panel digital display.
	Communication error detection	"E04" is displayed on the front-panel digital display.
	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 only).
Error detection output	Parallel communication	Output at pins 19 and 20: Photocoupler insulation, open collector output, short circuit at alert (load current of 10 mA or less)
	EIA-485 communication	Checked by using a status command through EIA-485 communication (command signal transmission when an error occurs)
	Ethernet communication	Checked by using a status command through TCP/IP or UDP/IP communication (command signal transmission when an error occurs)
Input power supply		100 to 240 VAC (+10% - 15%), 50/60 Hz
Power consumption (typ.)		PSCC-30048: 360 VA PSCC-60048: 750 VA
Operating temperature and humidity		Temperature: 0 to 40°C, Humidity: 20% to 85%RH (with no condensation)
Storage 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: EN61010-1 compliant, EMC standard: EN61326-1 Class A compliant
Environmental regulations		RoHS compliant
Material, coating, surface processing		Steel plate, Thickness of cover: 1.0, Thickness of chassis: 1.6 (PSCC-30048), 2.0 (PSCC-60048), N3 leather tone finish
Weight		PSCC-30048: 3,100 g max., PSCC-60048: 7,000 g max.
Accessories		PSCC-30048: 3-prong AC cord with ground terminal (2 m) x 1, Instruction Guide x 1 PSCC-60048: 3-prong AC cord with ground terminal (2 m) x 1, Instruction Guide x 1, key x 2

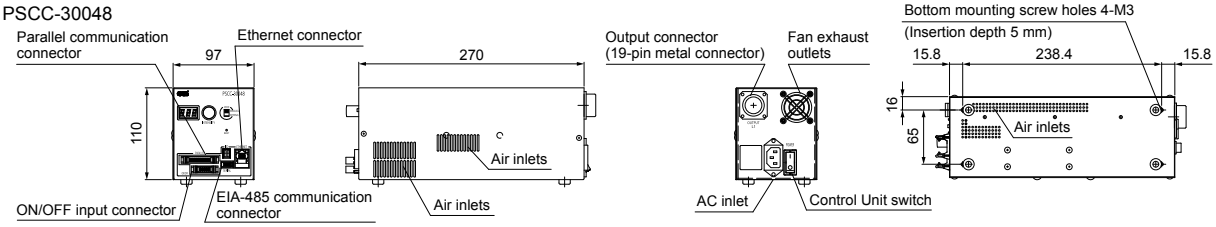
Light Unit connection cables

PSCC-30048			PSCC-60048		
Cable model name	Cable length	Applicable Light Unit	Cable model name	Cable length	Applicable Light Unit
QCBM-2/-3/-5/-10/-20	2 m/3 m/5 m/10 m/20 m	• LNSP-FN series (100 to 700 mm size only) • LNSP-UV-FN series • LNIS-FN series (100 to 700 mm size only)	QCB-2/-3/-5/-10/-20	2 m/3 m/5 m/10 m/20 m	• LNSP-FN series • LNSP-UV-FN series • LNIS-FN series

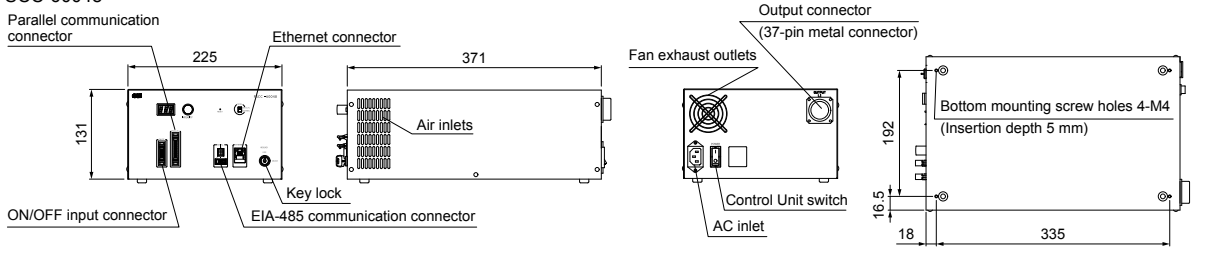
LNSP-FN series Product Page ► P. 135 LNSP-UV-FN series Product Page ► P. 101 LNIS-FN series Product Page ► P. 165

Dimensions (mm)

PSCC-30048



PSCC-60048



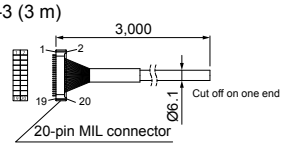
Options

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

Dimensions (mm)

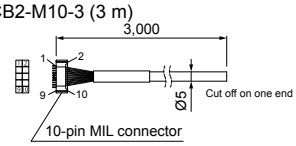
Parallel communication cable

EXCB2-M20-3 (3 m)



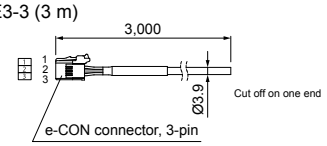
ON/OFF input cable

EXCB2-M10-3 (3 m)



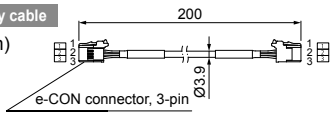
EIA-485 communication cable

EXCB2-E3-3 (3 m)



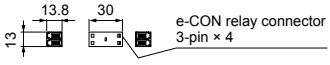
EIA-485 communication relay cable

EXCB2-E3-E3-0.2 (0.2 m)



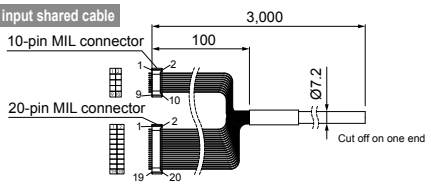
Relay connector

ECNR-E3CN4



Parallel communication / ON/OFF input shared cable

EXCB2-M10M20-3 (3 m)



* Refer to the material "Connecting EIA-485 Communications Cables" on the CCS website for information on multi-drop wiring connections. You can download this information from the product website page.