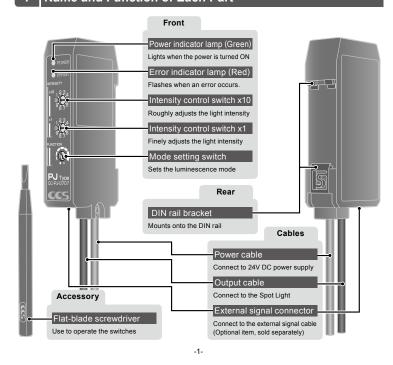
Compact Controller

CC-PJ-0707

Thank you for purchasing a CCS product. To ensure proper use of the product, please read this instruction guide before use and keep it for your future reference.

Name and Function of Each Part



Important Information for Equipment Safety - Read Before Use -

This product has been designed with full consideration of safety. However, incorrect usage of the product may result in fire, electric shock, or other serious damages. Please ensure to follow the conditions below.

■ The following symbols are used in this instruction guide to indicate and classify the relative importance of warnings and cautions.



Indicates that incorrect Warning usage may result in serious injury or death.



Indicates that incorrect usage may result in injury or property damage

■ The following symbols in the instruction guide indicate and classify the precautions.



shock



These symbols indicate prohibited actions



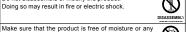




This symbol indicates required actions.

/!\ Warning

Do not disassemble or modify the product. Doing so may result in fire or electric shock



Do not touch the connectors or switches with wet hands. Doing so may result in electric shock





Turn off the power switch when connecting o disconnecting the product and peripherals Otherwise it may cause fire or electric shock.



Do not touch the power cords and connect the peripherals during lightning. This may result in electric shock.

liquid. Exposure to water may result in fire or electric



If abnormal condition occurs such as fuming heat, smell, noise, or so on, stop using the product immediately, and turn off the power switch. A fire or electric shock may result if the product is kept used



Caution

Do not place product under direct sunlight or in a high humidity environment. Doing so may result in fire due to internal temperature rise.



Please use designated power sources with stable voltage. Sharing a power source with inverters, motors, etc. may cause malfunction.



Always place product on a stable and flat location. Not doing so may result in the product falling or toppling, which may cause bodily injury and the product to malfunction.



Do not bundle product cables with high-voltage lines or power lines. Doing so may cause the product to malfunction. Keep the product cables as far away from such lines as possible Make sure to hold and pull from the connectors when disconnecting the cables. Not pulling from the connectors may damage the cable and result in fire or electric shock.



Connect only applicable Spot Lights. Not doing so may cause overcurrent and the device may overheat or ignite. Do not bend or jam cables when wiring product Doing so may cause product failure.

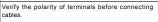
To avoid product surface discoloration or eterioration do not wipe product with volatiles such as paint

thinner or benzene.



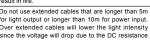
Before moving the product, disconnect all connecting cables. Damaging the cables may result in fire or electric shock.







Use a dry cloth to remove dust or other foreign matter from the plug electrodes. Failure to do so may result in fire.



Installation on to DIN Rail

■ How to mount

Hook the tips located on the upper part of the main body to the DIN rail. While pushing down the main body in the direction of arrow (1), push it in the direction of arrow (2).



■ How to dismount

While pushing the main body up in the direction of arrow 3, pull it in the direction of arrow 4.



* Do not install the product to locations where the cables are bent or twisted

Wire Connection

Warning

Before connection, make sure that the power is turned OFF.

Making connections with the power ON may result in a fire or electric shock

Connect the Spot Light to the output connector of the product

*Connect only the following applicable Spot Lights

Output cable							
Cable	AWG23, 3-wire, L=1m, Black (Optional cable extension up to 5m)						
Connector	SMP-03V-B (JST)						
Pin assignment	1: SENSE, 2: Output+, 3: Output-						
Applicable Spot Lights	HLV3-14, HLV3-2-1/2, and HLV3-22-2-1220 series, HLV2 series, HLV series (HLV-27 series is excluded)						

Connect the 24V DC power supply to the power cable of the product

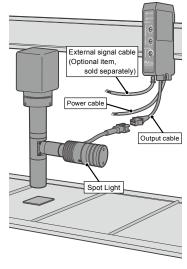
	•
	Power cable
Cable	AWG23, 2-wire, L=2m, Gray
Wiring	Brown: +24V, Blue: GND

To take in external signal to the product, connect the external signal cable

External signal cable model: NFCB2-CC-3 (Optional item, sold separately)

External signal cable								
Cable	AWG25, 2-wire, L=3m, Navy							
Wiring	White: Input +, Black: Input-							





Operating Instructions

- Operate the rotary switch using the flat-blade screwdriver included in the package.
- The value becomes inconsistent when the rotary switch is positioned in between the scale. Make sure that the arrow of rotary switch is aligned with the scale

Turn ON the power

Turn ON the power. The power lamp is lit while the power is ON.

Select the luminescence mode

Using the mode setting switch, select the luminescence mode from the following: Constant ON mode, ON/OFF mode, Strobe mode.

Constant lighting

To continuously keep the light emission on, adjust the mode setting switch to the 1 position as shown on the right.

ON/OFF mode

To light in ON/OFF mode, adjust the mode setting switch to the 1 position as shown on the right. The luminescence will synchronize with the HIGH external signal.

Strobe mode

To light in strobe mode, select and adjust the mode setting switch between positions ② to ⑨ as shown on the right (Luminescence time: 50µs to 40ms). The LED will be illuminated according to the time selected by the mode

setting switch arte	er trie exte	amai ingg	jer signa	ai input.						
Mode setting switch	0	1	2	3	4	5	6	7	8	9
Status	Constant	ON/OFF				Strobe	mode			
Status	lighting	mode	50µs	100µs	250µs	500µs	1ms	4ms	10ms	40ms

Setting the light intensity

Adjust the light intensity using the intensity control switch. Total of 100 levels of light intensity adjustments is possible (intensity control switch x10 adjusts the light intensity at every 10th level while the intensity control switch x1 adjusts the light intensity at single unit level). * LED is illuminated faintly at the minimum value.

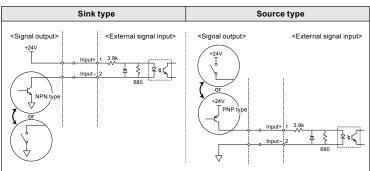
Intensity	x10	0	0	0	0	• • •	4	4	4	4	4	5	5	5	5	• • •	9	9	9	9
control switch	x1	0	1	2	3	• • •	5	6	7	8	9	0	1	2	3	• • •	6	7	8	9
Light intensity	level	1	2	3	4	• • •	46	47	48	49	50	51	52	53	54	• • •	97	98	99	100
Dark Bright)																				

Errors and solutions

The output will be stopped if any of the following errors occurs. Also, the error indicator lamp will flash red. To restore the output, remove the cause of the error and then either cycle the power supply or change the setting of the mode setting switch.

A Light that is not applicable is connected. A temperature error occurred, e.g., due to a faulty part.

Examples of External Signal Connection

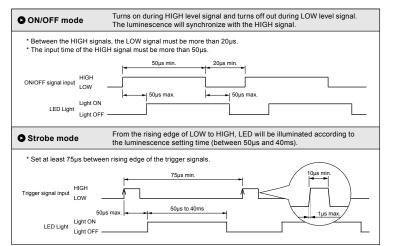


- * When 24V is applied on Input+ and 0V is applied on Input-, the signal becomes HIGH. (Applied voltage 24V ±10%)

 * Apply current using an open connector (high speed photocoupler) or semiconductor relay, or such. (Less than 10mA is recommended.)

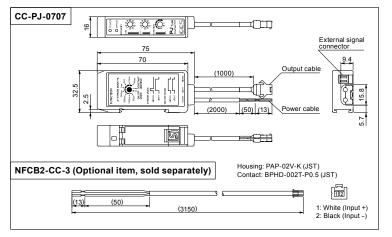
 * When using the product at an environment where noise often occurs, insulating the signal wiring and GND line from the drive unit with photocoupler or semiconductor relay is recommended.

Luminescence Timing



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Dimensions (mm)



Main Specifications

Product name	Conrol Unit for LED Light Units
Model	CC-PJ-0707
Drive method	Constant-current system
Light control method	Variable current control, lighting time control
Applicable illuminators	HLV3-14, HLV3-2-1/2, and HLV3-22-2-1220 series, HLV2 series,
	HLV series (HLV-27 series is excluded)
Input overcurrent protection	The fuse cuts off to protect from overcurrent
Input voltage (rating)	24V DC
Power consumption (typ.)	7W (3W Spotlight, at maximum light intensity)
Output voltage (rating)	7V DC
Output current (rating)	700mA
Operating temperature and humidity (indoors only)	Temperature: 0 to 40°C, Humidity: 20 to 85%RH (No condensation)
Storage temperature and humidity	Temperature: -20 to 60°C, Humidity: 20 to 85%RH (No condensation)
Vibration resistance	Acceleration: 19.6 m/s², frequency: 10 to 55 Hz, cycles: 3 minutes, for 1 hour each in X, Y, and Z directions
Impact	Acceleration: 49.0 m/sec ² , Operation time: 30 msec, Number of times: 3 times per each 6 directions
Cooling method	Natural air cooling
CE marking	EMC standard conform to EN61000-6-2/6-4
Material	ABS
Weight	100g
Accessories	Instruction guide, Flat-blade screwdriver

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\blacksquare Do not use the product in the following situations.

- Under conditions or in an environment not described in this instruction guide.
 In nuclear energy control systems, railroad systems, aviation systems, vehicles, combustion equipment, medical equipment, amusement machines, or safety equipment.
 In applications involving serious risk to life or property, particularly applications demanding a high level of safety.

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