

Controller with EtherNet/IP Interface

CN-4024-2-EIPT

Refer to our website for product details.

CCS CN

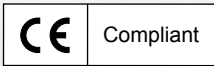
Search



You can also use your smartphone or cell phone.

For quick access.

Light Control through an EtherNet/IP Network



Note: The CN Controller is operated only through external control, and cannot be controlled manually.

Features

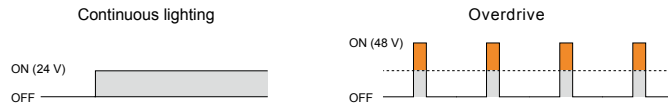
- Operated only through external control.
- Light intensity and other settings can be controlled with explicit messages via EtherNet/IP communications and with I/O commands via TCP/IP communications.

EtherNet/IP Message Specifications					
Device type	Message type	Port number to use (TCP)	DHCP	DLR function	Conformity
Adapter	Explicit (UCMM, Class 3)	44818	Available (Default: fixed IP address)	Available	ODVA Composite Conformance Test Revision CT13

- Three selectable lighting modes:

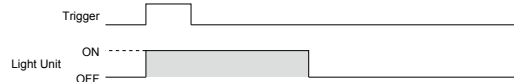
1. Overdrive Mode (48 VDC output, Strobe time control: 1 to 1,000 μ s, Maximum duty ratio: 7%)

When an external trigger signal is input to the CN Controller, the corresponding Light Unit flashes. By overdriving the voltage that is applied to the Light Unit, you can make the Light Unit flash a few times brighter than when the Light Units operate in any other lighting modes.



2. Strobe Mode (24 VDC Output, Strobe time control: 1 to 10,000 μ s)

When an external trigger signal is input to the CN Controller, the corresponding Light Unit flashes. LED Lights can withstand being turned on and off frequently. Turning on the Light Unit only when taking images will reduce heat generation, provide a more stable radiation output, and increase the service life of the Light Unit.



3. Continuous Mode (24 VDC Output, PWM Control: the light intensity can be set to any of 512 levels.)

The Light Unit will be ON (or OFF) as long as there is an external trigger signal input to the CN Controller.



Various technical documents available.

- PDF Drawings
- DXF Drawings
- 3D CAD
- Instruction Guides
- Product Filters
- Imaging Samples
- Data Sheets
- Examples of Custom Ordered Products

Download here. <http://www.ccs-grp.com/dl/>

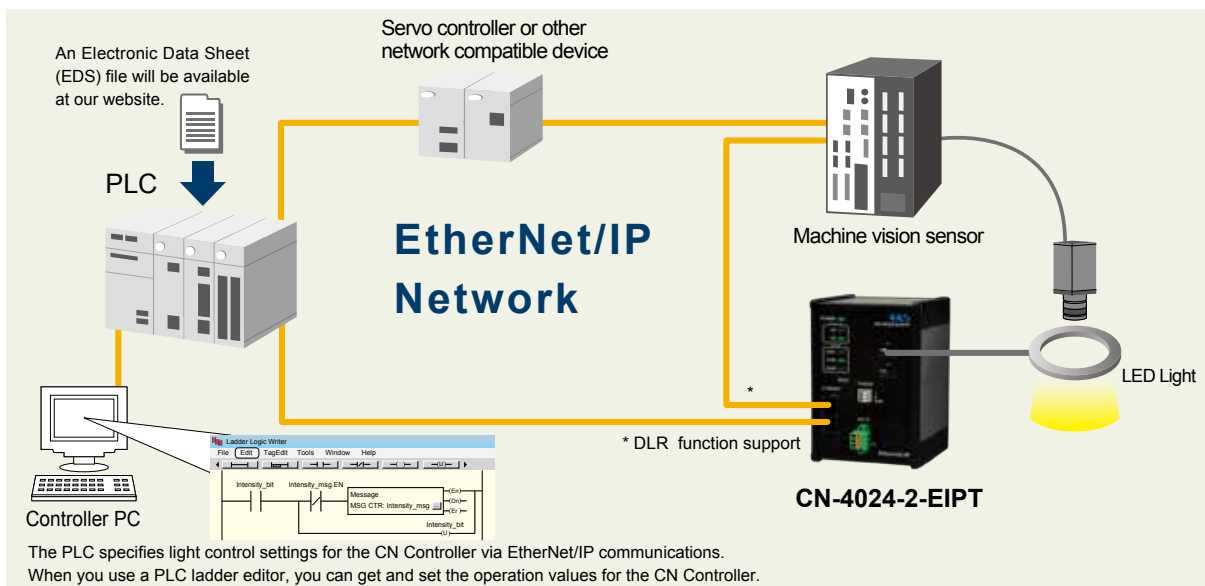
Control Units

- PD3 series
- PD2 series
- STU-3000
- PSB series
- POD series
- PTU2 series
- PF series
- CN-4024-2-EIPT
- PB-2430-1
- CC-ST-1024
- BB series
- PJ series
- CC-PJ-0707
- PSCC
- PSB3-30024

Options

- Lens Filters
- Diffusion Plates
- Polarizing Plates
- Light Control Films
- Brackets
- Other
- Extension Cables

Example system configuration



You can get the following values through an EtherNet/IP network:

Accumulated trigger count, accumulated lighting duration, and error status

Additionally, you can set and check the following values:

Lighting mode, trigger logic, ON/OFF setting for the Light Unit, light intensity, strobe time, and lighting delay

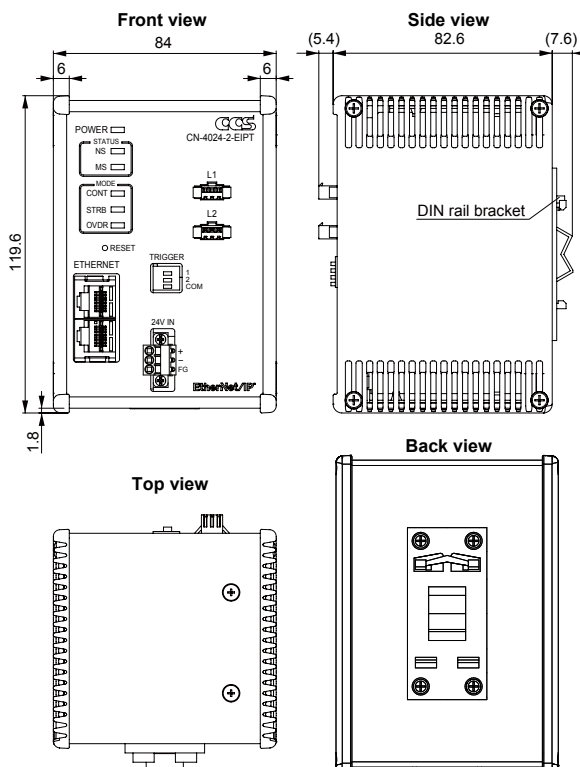
The CN Controller also provides TCP/IP commands for the same operations.

Specifications

Model name	CN-4024-2-EIPT
Lighting method	Overdrive (O/D) Mode, Strobe Mode: Strobe lighting Continuous Mode: Continuous lighting
Drive method	Constant-voltage system
Intensity control method	O/D Mode, Strobe Mode: Lighting time control Continuous Mode: PWM control
PWM frequency	125 kHz
Number of channels	2 channels
Output ratings (O/D Mode)	48 VDC 5 A max./connector, Total for 2 channels: 7 A max.*1
Output ratings (Strobe Mode, Continuous Mode)	24 VDC 40 W max./connector, Total for 2 channels: 40 W max.
External control protocol	EtherNet/IP, TCP/IP
Strobe time	O/D Mode: 1 to 1,000 μ s (in steps of 1 μ s) Strobe Mode: 1 to 10,000 μ s (in steps of 1 μ s)
Lighting delay	O/D Mode, Strobe Mode: 0 to 10,000 μ s (in steps of 1 μ s)
Light intensity	Continuous Mode: Set any of 512 levels
Trigger input	Terminal block, 3 poles, Solid wires or stranded wires AWG 28 to 22 Maximum duty ratio (O/D Mode): 7%
Trigger input voltage (rating)	24 VDC
Power input	Terminal block, 3 poles, Solid wires or stranded wires AWG 24 to 16
Power input voltage (rating)	24 VDC
Power input voltage (range)	21.6 to 26.4 VDC
Average power consumption (typ.)	45 W
Peak power consumption (max.)	71.3 W *2
Inrush current (typ.)	6.9 A, 21.4 μ s (reference values)
Insulation withstand voltage, Insulation resistance (i/o-FG)	250 VAC for one minute, Cutoff current: 10 mA, 500 VDC, 20 M Ω min.
Operating environment	Temperature: 0 to 40°C, Humidity: 20% to 85% (with no condensation), Indoor use only
Storage environment	Temperature: -20 to 60°C, Humidity: 20% to 85% (with no condensation)
Cooling method	Natural air cooling

CE marking	EMC standard: Conforms to EN61000-6-2, EN61000-6-4
Environmental regulations	RoHS compliant
Material and surface processing	Material: Aluminum and resin, Surface processing: Black alumite
Weight	500 g max.
Accessories	Instruction Guide

Dimensions (mm)



*1 Confirm the peak current of the LED Lights and use them within the above output current. For information on the availability of your LED Lights, refer to our website.
*2 When you select a power supply, the rated output power must be larger than the above peak power consumption.

You can inquire using our website.

Requests for Light Unit Selection

Requests for Loan Products

Requests for Estimates

Requests for a Catalog

Product Inquiries

Other Inquiries

Inquire on our website here.
<http://www.ccs-grp.com/contact/>