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CCS CN-PoE

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For quick access.

Using a single LAN cable for power receiving and communication



Front Panel
CN-1024-2-EPOE / CN-1024-4-EPOE Common



Rear Panel
CN-1024-2-EPOE (2 channel model)



CN-1024-2-EPOE

Rear Panel
CN-1024-4-EPOE (4 channel model)



CN-1024-4-EPOE

*4-branch cable supplied

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

Features

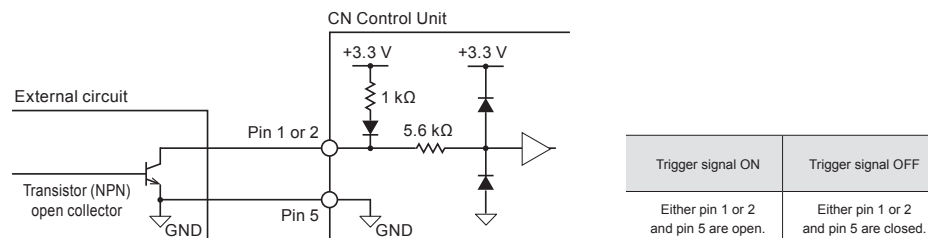
- Reduce the number of cables in your system by using a single LAN cable for power receiving and communication.
- Light control via Ethernet communication from your machine vision device or PC.
- Compact case design
- Can be installed apart from the control panel and close to the inspection site.
- Models equipped with 2 channels and 4 channels are available.
- Selectable continuous and strobe lighting with a single unit
- Trigger sequencing mode enables all channels to be simultaneously controlled with 1 trigger.
- (both 2 channel model/4 channel model)
- Trigger circulation mode enables channels to be turned on in sequence with each trigger input.
- (4 channel models only)
- Provides accumulated values of controller power ON duration, total light ON time, and other operation data.
- 256 levels of light intensity.
- Compatible with approx. 350 models of CCS LED lights up to 10 W.

Example Connection

Refer to the "Instruction Guide" for details.

Example connection of external trigger signal

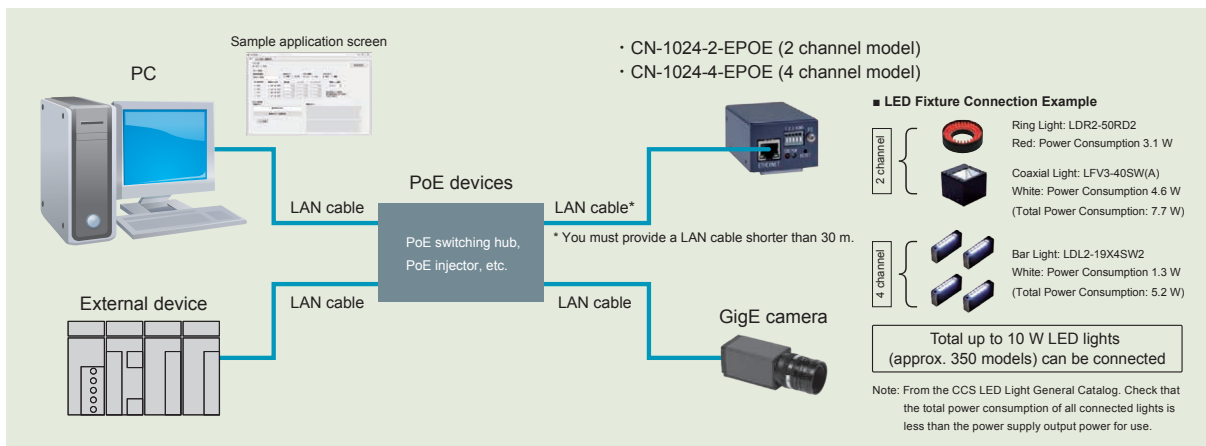
When the transistor shown below is turned ON, the trigger signal will be turned OFF.
Ensure that the external circuit allows the current of 3.1 mA to flow.



Note: Do not use the 3.3 V power supply provided in the Control Unit for different purposes other than trigger input.
Also, do not apply the voltage exceeding the rating to the pins.

PD3
PD2
PSB
P0D
PTU2
PF
CN-EPOE
CN-4024-2-EIPT
PB-2430-1
CC-ST-1024
PJ2
PJ
CC-PJ-0707
PSCC
PSB4
PSB3-30024
Band-Pass Filters
Lens Filters
Diffusion Plates
Polarizing Plates
Light Control Films
Fixtures, etc.
Brackets
SM/EL Cables

Example System Configuration



PoE (Power over Ethernet) is a technology that uses a LAN cable used for Ethernet to simultaneously deliver signaling and supply power to PoE compatible equipment connected.

Two standards, IEEE802.3af and IEEE802.3at are defined. (As of August 2019) Connect a PoE compatible device compliant with these standards to this product.

Specifications

Model name	CN-1024-2-EPOE	CN-1024-4-EPOE
Applicable Light Units (ratings)	24 VDC 10 W (2 channels total)	24 VDC 10 W (4 channels total)
Number of channels	2 channels	4 channels
Lighting method	Strobe Mode: Strobe lighting, Continuous Mode: Continuous lighting	
Drive method	Constant-voltage system	
Intensity control method	Strobe Mode: Lighting time control, Continuous Mode: PWM control	
PWM frequency	125 kHz	
Power input	RJ-45 connector (based on PoE)	
Power consumption (typ.)	13.9 W	
External control protocol	TCP/IP, UDP/IP	
Strobe time setting (Strobe mode)	8 μs to 100 ms (Must be a multiple of 8 μs)	
Lighting delay setting (Strobe mode)	Strobe mode: 0 to 100 ms (Must be a multiple of 10 μs)	
Light intensity setting	256 levels (including 0: Not lit.)	
Operating environment (Indoor use only)	Temperature: 0 to 40°C, Humidity: 20 to 85% (with no condensation)	
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	
Output connectors	SMP-03V-BC x 2 pcs.	SMP-08V-BC
Trigger input	Screw-less terminal block, 5-pin, Solid wires or stranded wires AWG 28 to 22	
Trigger input voltage (range)	24 VDC	
Material and surface processing	Aluminum alloy, thickness: 1.5 mm, navy-blue, leather tone	
Weight	140 g max.	
Accessories	Instruction guide	Instruction guide, 4-branch cable

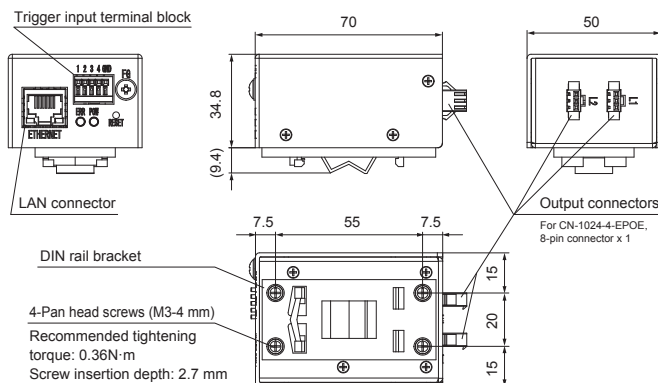
A sample application that demonstrates the initial settings including IP address and the light control settings is available on our website. Please download it as required.



Sample application screen

Dimensions (mm)

■ CN-1024-2-EPOE
(CN-1024-4-EPOE is the same size except for the output connector)



• Turn OFF the power source when you remove and attach the DIN rail bracket.
• Do not reverse the position when attaching the DIN rail bracket.

■ For CN-1024-4-EPOE 4-branch cable (supplied)
Model name: CN-1024-4-CABLE

