PD3 series PD2 series CCS PD3

Use a search engine

Digital Control Units PD3 series

Select digital Control Units matching your network



DC Input Types



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

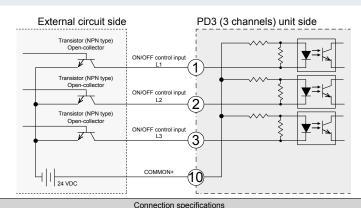
- Each single unit is compatible with continuous, ON/OFF and strobe lighting.
- Digital display makes it easy to check settings.

Spot Light HLV2 series cannot emit strobe. (Spot Light HLV2 series Product Page ▶ P. 111)

- Ethernet-compatible with a selection of three types of external controls.
- DIN rail installation is standard.
- There are four types of capacity: 3 channels/28 W, 3 channels/48 W, 4 channels/46 W, and 8 channels/95 W.
 - *2: Lineup includes only DC-input Control Units. *1: Can be connected only with 24 V Light.
 - *3: Can be connected with both 24 V Light and Spot Light HLV2 series.
- The parallel type has the fastest switching for settings. Perform high-speed control through batch transmission.
- The Ethernet type supports standard protocols TCP/IP and UDP/IP. Pursuing even more convenience.
- The EIA-485 type can individually manage units using multi-drop wiring. Can manage up to 4 units.

Example connection * Refer to the "Instruction Guide" for details.

Example connection of external trigger signal



Rated input voltage	e Maximum input	voltage	oltage ON voltage/ON current		OFF vol	tage/OFF current	Input impedance
24 VDC	26.4 VD0	:	14.4 VDC or more/ 3 mA max.		5 VDC max./ 1 mA max.		12 kΩ (per terminal)
Trigger logical setting switch	Input signal	Pho	tocoupler	ON/OF mode		Strobe mode	
HIGH	HIGH		OFF	LED C	N	LED is ON f	or the specified time.
пібп	LOW		ON	LED O	FF	N	No change
1.014	HIGH		OFF	LED O	FF	١	No change
LOW	LOW		ON	LEDIC	N	LED is ON f	or the specified time

We have various materials.

3D CAD

Product Fliers

Data Sheets

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

Diffusion Plates

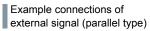
Polarization Plates Light Control Films

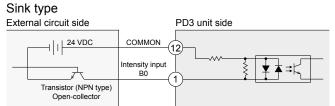
Brackets Other Extension Cables

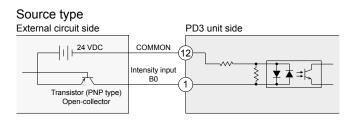
Control Unit Specifications List ► P.183

Technical Guide ▶ P.229

► P.241





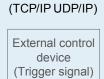


Connection specifications						
Rated input voltage Maximum input voltage		ON voltage/ ON current	OFF voltage/ OFF current	Input impedance		
24 VDC	24 VDC 26.4 VDC		5 VDC max./ 1 mA max.	12 kΩ (per terminal)		
	Input signal	Photocoupler	Data			
Cinh tuna	HIGH	OFF	1			
Sink type	LOW	ON	0	-		
Source type	HIGH	ON	0			
Source type	LOW	OFF	1			

Example system configuration







Ethernet type





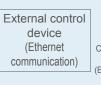
(30 W capacity)

(Ethernet communication)

Connected with LED Light



ECNR-E3CN4 (Relay connector)





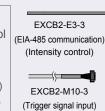
Commercially available LAN cable (Ethernet communication)

(Intensity control) PD3-3024-3-EI (30 W capacity) (Ethernet communication)

Connected with LED Light







(ON/OFF control)









Connected with LED Light

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

You can inquire using our website.

Requests for Light Unit Selection

Requests for Loan

Connected with LED Light

Connected with LED Light

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

PD3 series PD2 series STU-3000 PSB series PTU2 series PB-2430-1 CC-ST-1024 PJ series CC-PJ-0707 PSCC series PSB3-30024 Lens Filters Diffusion Plates

Other Extension Cables

CCS PD3

Use a search engine.

▶ Search

Common specifications: Parallel types

AC input: PD3-3024-3-PI/PD3-5024-4-PI/PD3-10024-8-PI DC input: PD3-3024-3-PT/PD3-5024-3-PT/PD3-5024-4-PT

Model name	PD3-3024-3-PI	PD3-5024-4-PI	PD3-10024-8-PI	PD3-3024-3-PT	PD3-5024-3-PT	PD3-5024-4-PT	
Input voltage		100 to 240 VAC (+10% -15%		1 20 002 1 0 1 1	24 VDC (21.6 to 26.4 V)	1 50 0021111	
Lighting method	Continuous/Strobe lighting						
Drive method	Constant-voltage system		tant-voltage system tant-current system	Constant-vo	oltage system	24 V LIGHT: Constant-voltage system HLV LIGHT: Constant-current system	
Intensity control method	PWM control and lighting time control	24 V LIGHT: PWM control at HLV LIGHT: Variable-current			control g time control	24 V LIGHT: PWM control and lighting time control HLV LIGHT: Variable-current control	
No. of channels	3 channels	4 channels	8 channels	3 cha	annels	4 channels	
Applicable Light Unit (rated)	Light Units with 24 VDC input Total for 3 channels: 28 W	Light Units with 24 VDC input Total for 4 channels: 46 W HLV2 series (Spot Light) 3.9 W per connector (700 mA) max.	Light Units with 24 VDC input 60 W max. (SMP-03V-BC /1 connector) 95 W max. (ELR-02V) HLV2 series (Spot Light) 3.9 W per connector (700 mA) max.	Light Units with 24 VDC input Total for 3 channels: 28 W	Light Units with 24 VDC input Total for 3 channels: 48 W	Light Units with 24 VDC input Total for 4 channels: 46 W HLV2 series (Spot Light) 3.9 W per connector (700 mA) max.	
PWM frequency			125	kHz			
Error detection display	"OCP" displayed on front digital display: Overcurrent error	"OCP" displayed on front digital display: Overcurrent error "EFN" display: Fan stop error "EID" display: ID error (HLV2 series only)		"OCP" displayed on front digital display: Overcurrent error		"OCP" displayed on front digital display: Overcurrent error "EFN" display: Fan stop error "EID" display: ID error (HLV2 series only)	
Overcurrent protection	Operates at 1	Operates at 107% of the output current. Reset by pressing and holding the setting switch for 1 sec., or turning the power off and then * Do not create an intentional short circuit between the positive (+) and negative (-) outputs.				then on again.	
Power consumption (typ.)	78 VA	70 VA	130 VA	32 W	52	2 W	
Frequency		50/60 Hz			-		
Output voltage (rated)			24 \	VDC			
Intensity setting		External: 8-bit input	Manual: 256-step using (B0 to B7), write pulse (BRTV	the front setting switch VR), and channel selection (CHSEL0 to CHSEL2)		
ON/OFF setting			External tr	rigger input	·		
			Manual: 11-step using	the front setting switch			
Lighting mode setting		External: 4-bit input (M0 to M3), write pulse (TRG)	WR), and channel selection ((CHSEL0 to CHSEL2)		
Error detection output	NPN Transistor output between pins 19 (OC) and 20 (OE) of the external control connector Normal operation: Open, Overcurrent output detected: Closed						
F. 1 1	Trigger input: MIL connector, 10-pin						
External control connector	Intensity/Lighting mode setting: MIL connector, 20-pin						
Operating temperature and humidity		Temper	ature: 0 to 40°C, Humidity: 20	0% to 85%RH (with no conde	ensation)		
Storage temperature and humidity		Tempera	ture: -20 to 60°C, Humidity: 2	20% to 85%RH (with no cond	lensation)		
Cooling method	Natural air cooling	Forced a	ir cooling	Natural a	air cooling	Forced air cooling	
CE marking	Safety standard: EN61010-1	compliant, EMC standard: El	N61326-1 Class A compliant	EMC st	andard: EN61326-1 Class A	compliant	
Material/Surface processing		Ma	aterial: aluminum and resin, S	Surface processing: blue alur	nite		
Weight	600 g max.	1,200 g max.	1,500 g max.	400 (g max.	850 g max.	
			kets x 1 set (PD3-5024-4-PI/10024-8-PI)	y y			

Common specifications: Ethernet type

AC input: PD3-3024-3-EI/PD3-5024-4-EI/PD3-10024-8-EI DC input: PD3-3024-3-ET/PD3-5024-3-ET/PD3-5024-4-ET

Model name	PD3-3024-3-EI	PD3-5024-4-EI	PD3-10024-8-EI	PD3-3024-3-ET	PD3-5024-3-ET	PD3-5024-4-ET	
Input voltage (rated)		100 to 240 VAC (+10% -15%	n)		24 VDC (21.6 to 26.4 V)		
Lighting method			Continuous/S	Strobe lighting			
Drive method	Constant-voltage system		tant-voltage system tant-current system	Constant-vo	ltage system	24 V LIGHT: Constant-voltage system HLV LIGHT: Constant-current system	
Intensity control method	PWM control and lighting time control	24 V LIGHT: PWM control and lighting time control HLV LIGHT: Variable-current control		PWM control and lighting time control		24 V LIGHT: PWM control and lighting time control HLV LIGHT: Variable-current control	
No. of channels	3 channels	4 channels	8 channels	3 cha	annels	4 channels	
Applicable Light Unit (rated)	Light Units with 24 VDC input Total for 3 channels: 28 W	Light Units with 24 VDC input, HLV2 series (Spot Light) Total for 4 channels: 46 W	Light Units with 24 VDC input, HLV2 series (Spot Light) Total for 8 channels: 95 W (EL connector: one 95 W connector)	Light Units with 24 VDC input Total for 3 channels: 28 W	Light Units with 24 VDC input Total for 3 channels: 48 W	Light Units with 24 VDC input, HLV2 series (Spot Light) Total for 4 channels: 46 W	
PWM frequency			125	kHz			
Error detection display	"OCP" displayed on front digital display: Overcurrent error	"OCP" displayed on front digital display: Overcurrent error "EFN" display: Fan stop error "EID" display: ID error (HLV2 series only)		"OCP" displayed on front digital display: Overcurrent error		"OCP" displayed on front digital display: Overcurrent error "EFN" display: Fan stop error "EID" display: ID error (HLV2 series only)	
Overcurrent protection	Operates at 107% of the output current. Reset by pressing and holding the setting switch for 1 sec., or turning the power off and then on again. *Do not create an intentional short circuit between the positive (+) and negative (-) outputs.					hen on again.	
Power consumption (typ.)	78 VA	70 VA	130 VA	32 W	52	W	
Frequency		50/60 Hz			_		
Output voltage (rated)			24 \	/DC			
Intensity setting		E.	Manual: 256-step using		lion		
ON/OFF setting		,	trigger input or command input				
ON OIT Setting		LAICHIALI	Manual: 11-step using		nunication		
Lighting mode setting		Fx	ternal: Command input via To		tion		
Error detection output			Command sent when over				
·	Trigger input: MIL connector, 10-pin						
External control connector	Intensity/Lighting mode setting: RJ-45 connector						
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	Natural air cooling		air cooling	Natural a	air cooling	Forced air cooling	
					air cooling andard: EN61326-1 Class A c		
Cooling method	Safety standard: EN61010-	Forced a	N61326-1 Class A compliant	EMC sta		ompliant	
Cooling method CE marking	Safety standard: EN61010-	Forced a 1 compliant, EMC standard: E	N61326-1 Class A compliant	EMC sta Material: Aluminu	andard: EN61326-1 Class A o	ompliant	

Other

Extension Cables

PD2 series STU-3000 PSB series PTU2 series PB-2430-1 CC-ST-1024 BB series

Spot Light

Product Page

Light Unit

Product Page

Common specifications: EIA-485 types

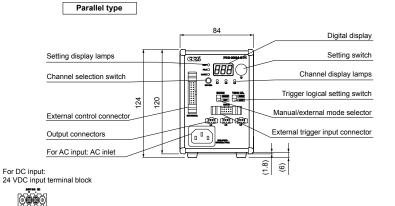
AC input: PD3-3024-3-SI/PD3-5024-4-SI/PD3-10024-8-SI

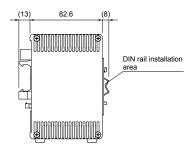
Model name	PD3-3024-3-SI	PD3-5024-4-SI	PD3-10024-8-SI			
Input voltage (rated)	100 to 240 VAC (+10% -15%)					
Lighting method	Continuous/Strobe lighting					
Drive method	Constant-voltage system 24 V LIGHT: Constant-voltage system					
Bill the inclined			tant-current system			
Intensity control method	PWM control	24 V LIGHT: PWM control and lighting time control				
	and lighting time control	HLV LIGHT: Variable-current control				
No. of channels	3 channels	4 channels	8 channels			
		Light Units with 24 VDC input,	Light Units with 24 VDC input,			
Applicable Light Unit (rated)	Light Units with 24 VDC input	HLV2 series (Spot Light)	HLV2 series (Spot Light)			
. ,	Total for 3 channels: 28 W	Total for 4 channels: 46 W	Total for 8 channels: 95 W			
			(EL connector: one 95 W connector)			
PWM frequency		125 kHz				
		"OCP" displayed on front digital display: Overcurrent error	or			
Error detection display	"OCP" displayed on front digital display: Overcurrent error	"EFN" display: Fan stop error				
		"EID" display: ID error (HLV2 series only)				
Overcurrent protection	Operates at 107% of the output current. Reset by pressing and holding the setting switch for 1 sec., or turning the power off and then on again.					
	* Do not create an intentional short circuit between the positive (+) and negative (-) outputs.					
Power consumption (typ.)	78 VA 70 VA 130 VA					
Frequency	50/60 Hz					
Output voltage (rated)	24 VDC					
Intensity setting	Manual: 256-step using the front setting switch					
		External: Command input via EIA-485 communication				
ON/OFF setting	External trigger input or command input via EIA-485 communication					
Lighting mode setting		Manual: 11-step using the front setting switch				
		External: Command input via EIA-485 communication				
Error detection output		Command sent when overcurrent output is detected.				
External control connector	Trigger input: MIL connector, 10-pin					
External control connector	Intensity/Lighting mode setting: e-CON connector, 3-pin					
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	Natural air cooling Forced air cooling					
Cooling metrod	Natural air cooling	10.000	Safety standard: EN61010-1 compliant, EMC standard: EN61326-1 Class A compliant			
CE marking						
	Safety standar		ass A compliant			
CE marking	Safety standar	rd: EN61010-1 compliant, EMC standard: EN61326-1 Cla	ass A compliant			

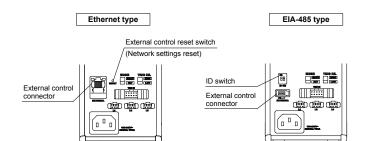
A unit with a PWM frequency of 500 kHz can be made for custom orders. Please contact your CCS sales representative for details. For the effect on brightness due to differences in PWM frequency, refer to P. 235

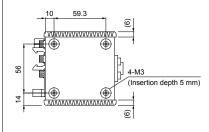
Dimensions (mm)

PD3-3024-3-PI/PD3-3024-3-EI/PD3-3024-3-SI/PD3-3024-3-PT/ PD3-3024-3-ET/PD3-5024-3-PT/PD3-5024-3-ET









* Ethernet/EIA-485 types have the same external dimensions as the parallel type.

PD3 series

PD2 series STU-3000 PSB series

PTU2 series PB-2430-1

CC-ST-1024

PJ series

CC-PJ-0707

PSCC series

PSB3-30024

Lens Filters

Diffusion Plates

Extension Cables

Options

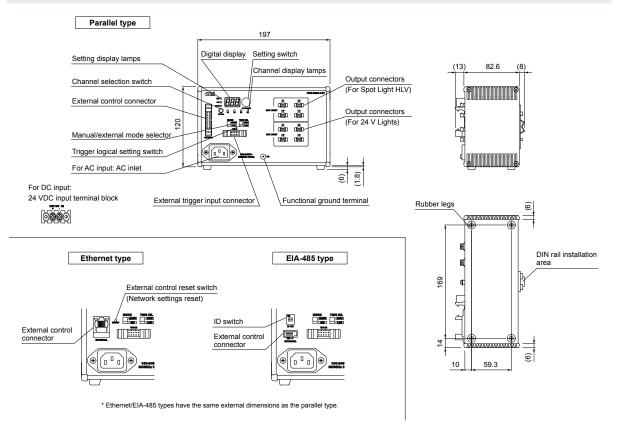
CCS PD3 ▶ Search

Use a search engine.

your smartphone or cell phone.

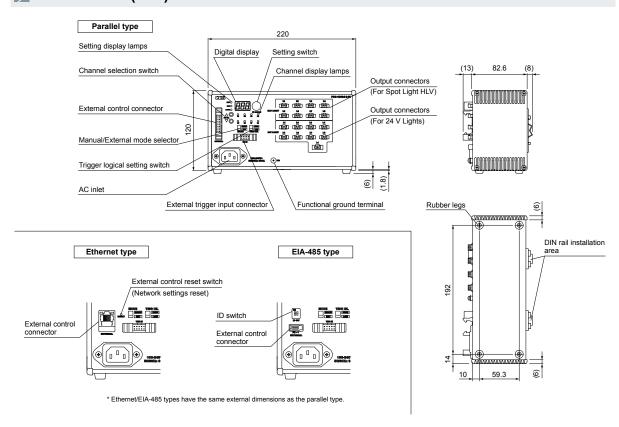
Dimensions (mm)

PD3-5024-4-PI/PD3-5024-4-EI/PD3-5024-4-SI/PD3-5024-4-PT/PD3-5024-4-ET



Dimensions (mm)

PD3-10024-8-PI/PD3-10024-8-EI/PD3-10024-8-SI



Data Sheets

PD2 series

STU-3000

PSB series

PTU2 series

PB-2430-1 CC-ST-1024 BB series PJ series CC-PJ-0707

PSCC series

PSB3-30024

Lens Filters

Diffusion Plates

Polarization Plates

Light Control Films

Extension Cables

Brackets Other

Dimensions (mm)

Options

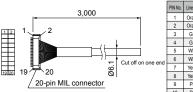
External control cables

Parallel communication cable

Used for performing external control via parallel communication. You can select the channel, intensity setting and lighting mode (continuous, ON/ OFF and strobe modes).



Model name: EXCB2-M20-3 3,000



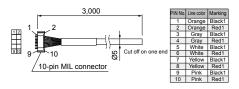
	PIN No.	Line color	Marking	PIN No.	Line color	Marking
	1	Orange	Black1	11	Orange	Black2
	2	Orange	Red1	12	Orange	Red2
	3	Gray	Black1	13	Gray	Black2
	4	Gray	Red1	14	Gray	Red2
	5	White	Black1	15	White	Black2
nd	6	White	Red1	16	White	Red2
iu	7	Yellow	Black1	17	Yellow	Black2
	8	Yellow	Red1	18	Yellow	Red2
	9	Pink	Black1	19	Pink	Black2
	10	Pink	Red1	20	Pink	Red2

Trigger input cable

Cable through which external trigger signals are input by parallel bit method. Used when performing ON/OFF or strobe lighting using an external trigger signal.



Model name: EXCB2-M10-3

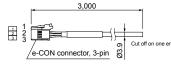


EIA-485 communication cable

Used for performing external control via EIA-485 communication. You can select the channel, intensity setting, ON/OFF setting and lighting mode (continuous, ON/OFF and strobe modes).



Model name: EXCB2-E3-3



PIN No.	Line color	Embedded line color
1	Black	None
2	Black	White
3 (shielded)	Drain wire	None

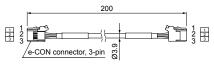
EIA-485 communication relay cable

Relay cable necessary if using with two or more PD3 series units connected for EIA-485 communication.

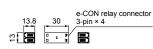
Refer to the material "Connecting EIA-485 Communications Cables" on the CCS website for information on You can download this information from the product website page.



Model name: EXCB2-E3-E3-0.2



Relay connector Model name: ECNR-E3CN4

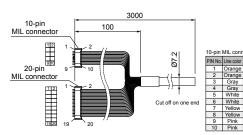


Parallel communication/Trigger input branch cable

Branch cable that combines parallel communication and trigger input cables into a single cable.



Model name: EXCB2-M10M20-3



		2	Orange	Red2
		3	Gray	Black2
		4	Gray	Red2
		5	White	Black2
		6	White	Red2
		7	Yellow	Black2
ır		8	Yellow	Red2
_	.	9	Pink	Black2
king		10	Pink	Red2
ck1		11	Orange	Black3
d1		12	Orange	Red3
ck1	ı	13	Gray	Black3
d1	ı	14	Gray	Red3
ck1	ı	15	White	Black3
d1	ı	16	White	Red3
ck1		17	Yellow	Black3
d1		18	Yellow	Red3
ck1		19	Pink	Black3
d1	1	20	Pink	Red3

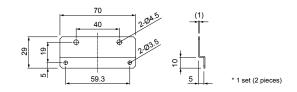
Base brackets

Bracket for securing PD3 series units to the floor, shelving and similar locations

Base Brackets are included with PD3-5024-4 and PD3-10024-8 models.



Model name: BK-PD3



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