

Digital Control Units

PD2 series

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CCS PD2

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Control Units

Digital Control Units

PD2 series

Intensity control to 256-step
Compatible with a wide range of uses



PD2-1012/PD2-1024



PD2-3012/PD2-3024



PD2-5012/PD2-5024



PD2-3012-2/PD2-3024-2



PD2-3012-4/PD2-3024-4



PD2-3012-8/PD2-3024-8



Compliant model(s)

PD2-3012/PD2-3024/PD2-5012/PD2-5024/PD2-3012-2/PD2-3024-2/
PD2-3012-4/PD2-3024-4/PD2-3012-8/PD2-3024-8

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)

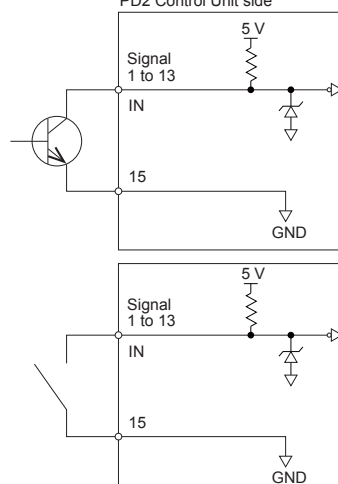
Selection

- You can select either 12 V or 24 V type according to the input voltage of the LED Light being used.
- You can select from 10 W, 30 W and 50 W types according to the power consumption of the LED Light being used.
- You can select from 2, 4 and 8-channel types if you are using individual intensity settings for multiple Light Units.
- You can select an optional external control cable if you are using external control (refer to P.161).

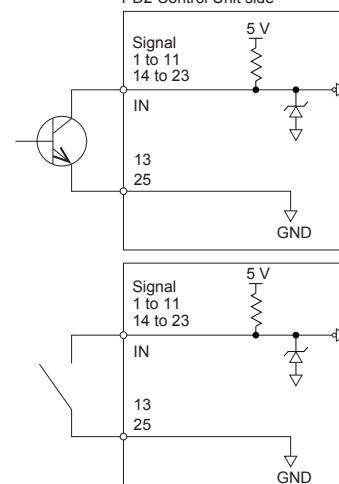
Example connection * Refer to the "Instruction Guide" for details.

Example connections of external control signal

1, 2 channels



4, 8 channels

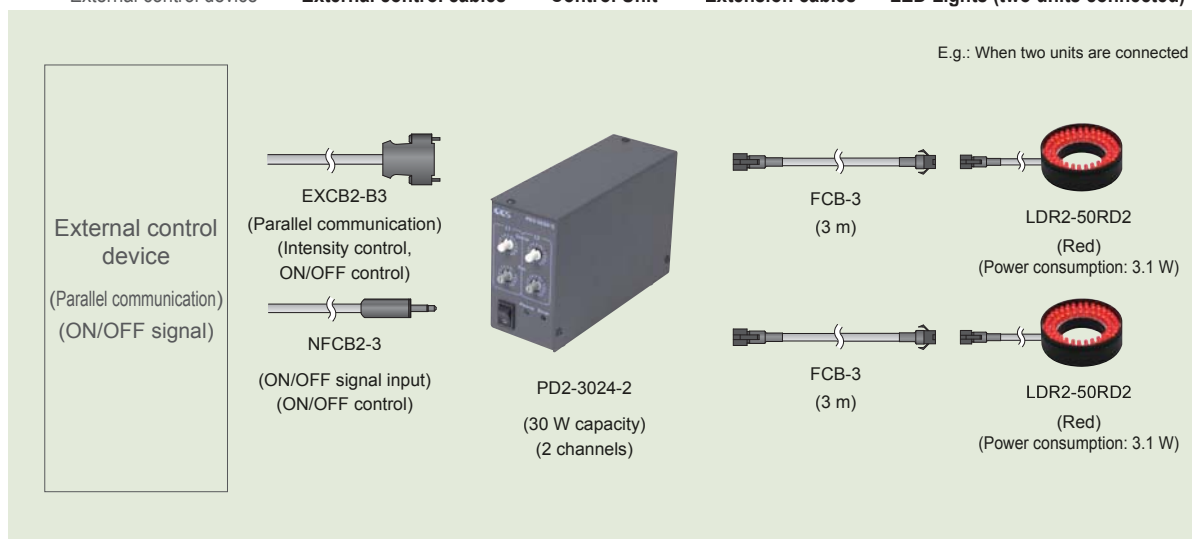


Drive using driver IC or NPN open-collector. Drive is possible if there is a device through which flows an approximately 10 mA current from signal to ground.

Example system configuration

Example:

External control device — External control cables — Control Unit — Extension cables — LED Lights (two units connected)



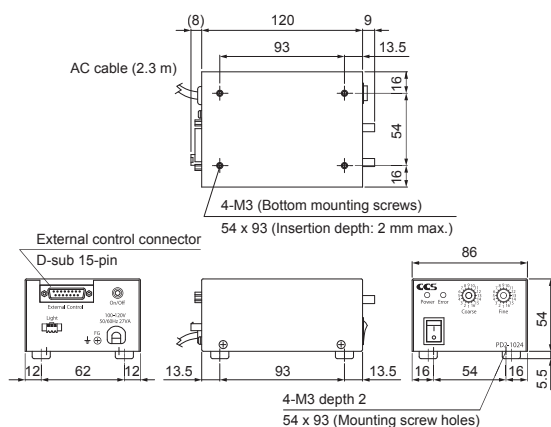
Specifications

Model name	PD2-1012	PD2-1024	PD2-3012	PD2-3024	PD2-5012	PD2-5024	PD2-3012-2	PD2-3024-2	PD2-3012-4	PD2-3024-4	PD2-3012-8	PD2-3024-8
Input voltage	100 to 120 VAC		100 to 240 VAC									
Input current*	0.25 A typ.		0.78 A typ.		1.3 A typ.		0.78 A typ.					
Frequency	50/60 Hz											
Inrush current	15 A typ.											
No. of channels	1 channel	1 channel	1 channel	1 channel	1 channel	1 channel	2 channels	2 channels	4 channels	4 channels	8 channels	8 channels
DC output voltage	12 V	24 V	12 V	24 V	12 V	24 V	12 V	24 V	12 V	24 V	12 V	24 V
Output voltage	9.5 W max.	9.0 W max.	28 W max.	28 W max.	46 W max.	46 W max.	28 W max.	28 W max.	27 W max.	27 W max.	25 W max.	25 W max.
Intensity control	Intensity control method: 62.5 kHz PWM control Manual: 16-step intensity control using coarse and fine rotary switches on the front panel External: Intensity control using 8-bit parallel signal											
External control input	Input circuit: Pull-up of +5.0 V internally by use of resistor (4.7 kΩ) HS-CMOS input: Low level of max. 1.0 V, high level of 3.5 V or more								Input circuit: Pull-up of +5.0 V internally by use of resistor (2.2 kΩ)			
External control connector	D-sub 15-pin (plug)								D-sub 25-pin (plug)			
Lights ON/OFF control	ON/OFF control during manual intensity control: Ø3.5 mm microphone jack ON/OFF control during external intensity control: D-sub 15-pin on signal (not synchronized with writing sequence)								Manual/External: D-sub 25-pin ON signal (not synchronized with writing sequence)			
Light ON/OFF response time	OFF→ON: 10 μs typ., ON→OFF: 10 μs typ.											
Startup time	0.5 sec typ.											
Output overcurrent protection	Operates at 107% of the output current. Reset by turning the power off and then on again.											
Operating environment	Temperature: 0 to 40°C, Humidity: 20% to 85%RH (with no condensation)											
Storage environment	Temperature: -20 to 60°C, Humidity: 20% to 85%RH (with no condensation)											
Weight	0.7 kg max.		1.1 kg max.		1.3 kg max.		1.1 kg max.		1.2 kg max.		1.5 kg max.	
Accessories	3-prong AC cord with ground terminal (2 m) x 1 (except for PD2-1012/1024), Instruction Guide x 1											

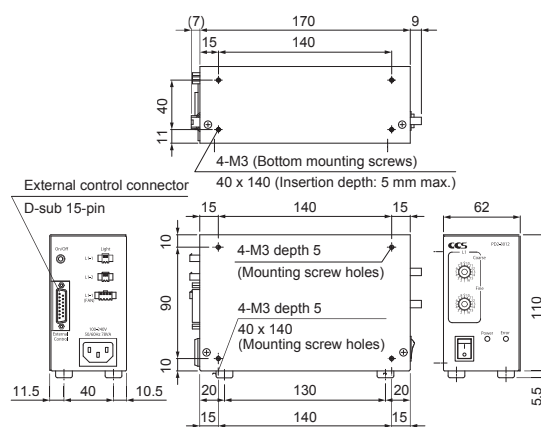
* For 100 VAC

Dimensions (mm)

PD2-1012/PD2-1024



PD2-3012/PD2-3024



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PD2 series



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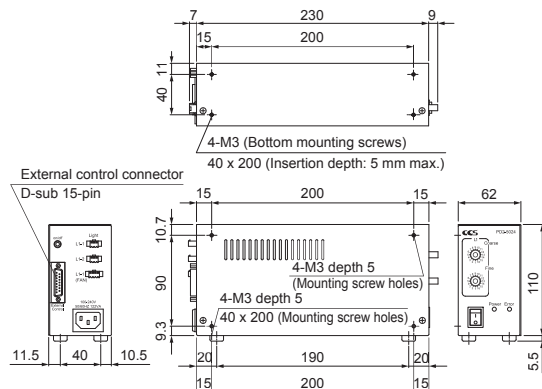


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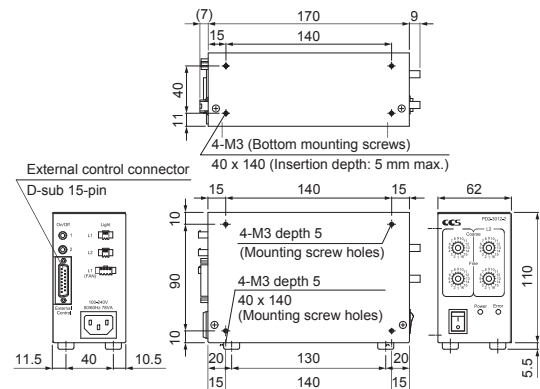
Use a search engine.

Dimensions (mm)

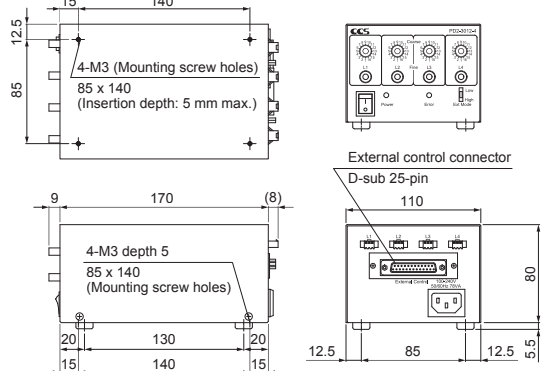
PD2-5012/PD2-5024



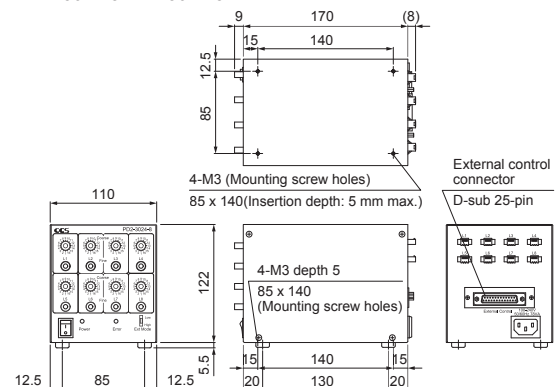
PD2-3012-2/PD2-3024-2



PD2-3012-4/PD2-3024-4



PD2-3012-8/PD2-3024-8



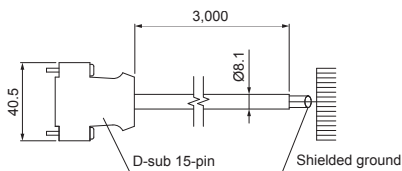
Options

External control cable

Dimensions (mm)

Corresponding Control Unit: PD2 (1 and 2 channels) series

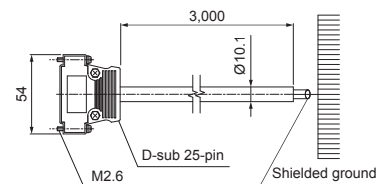
EXCB2-B3 (3 m): D-sub 15-pin



No.	Line color	No.	Line color
1	Black	9	Gray
2	White	10	Pink
3	Red	11	White/Black
4	Green	12	Red/Black
5	Yellow	13	Green/Black
6	Brown	14	Yellow/Black
7	Blue	15	Brown/Black
8	Purple	NC	(Blue/Black)

Corresponding Control Unit: PD2 (4 and 8 channels) series

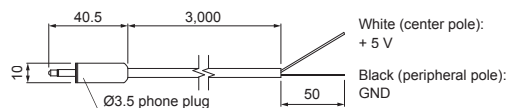
EXCB2-25-3 (3 m): D-sub 25-pin



External ON/OFF control cable

Corresponding Control Unit: PD2 (1 and 2 channels) series

NFCB2-3 (3 m)



Line color	Signal
White	ON/OFF
Black	GND (-)

No.	Line color	No.	Line color	No.	Line color	No.	Line color
1	Black	9	Gray	17	Purple/Black	25	Brown/White
2	White	10	Pink	18	Grey/Black	NC	(Blue/White)
3	Red	11	White/Black	19	Pink/Black	NC	(Purple/White)
4	Green	12	Red/Black	20	Light green/Black	NC	(Grey/White)
5	Yellow	13	Green/Black	21	Black/White	NC	(Pink/White)
6	Brown	14	Yellow/Black	22	Red/White	NC	(Light green/White)
7	Blue	15	Brown/Black	23	Green/White		
8	Purple	16	Blue/Black	24	Yellow/White		