SM/EL Cables

PSB4-30024

# Analog Control Unit (Constant Voltage) PSB3-30024

High-capacity 300 W constant voltage

Analog Control Units adjustable

in 256-step intensity settings



CE Compliant

The supplied AC cord is for use with 100 to 120 VAC If you want to use the Control Unit with 200 to 240 VAC. you must procure another appropriate AC power cord

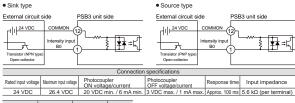
# Features

- Light Unit output is compatible with 1 channel / 4 connectors (metal connector x 2, EL connector x 2).
- Each single unit is equipped with parallel, serial and analog control for external control.
- You can select the optimal output according to the Light Unit and optimize the intensity setting by switching the intensity range.

### Example Connections

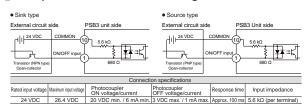
Refer to the "Instruction Guide" for details.

#### Parallel communication Example connections of external signal



	Input signal	Photocoupler	Data
Sink type	HIGH	OFF	1
Silik type	LOW	ON	0
Source type	HIGH	ON	0
cource type	LOW	OFF	1

#### **ON/OFF** input Example connections of external signal



	Input signal	Photocoupler	Light Unit status
Sink type	HIGH	OFF	On
	LOW	ON	Off
Source type	HIGH	ON	Off
	LOW	OFF	On

### Example System Configuration

External control devices — External control cables — Control Unit — Extension cable — LED Light











PD2 STU-3000 PSB POD PTU2 CN-4024-2-EIP PB-2430-1 CC-ST-1024 BB PJ2 CC-PJ-0707 PSCC PSB4-30024 Band-Pass Filte Diffusion Plates Polarizing Plates Light Control Films Brackets Fixtures, etc. SM/EL Cables

Light Unit

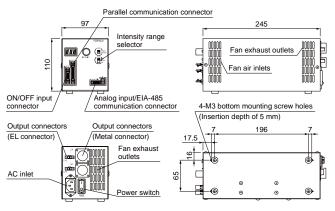
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Model		PSB3-30024		
Lighting me	thod	Continuous lighting		
Drive metho	od	Constant-voltage system		
Intensity cor	ntrol method	Variable voltage control		
Number of o	channels	1 channel		
Applicable Lig	ht Unit (rated)	24 V 300 W		
Intensity control		Manual and external intensity	Manual/External switch (MODE)	
		Variable output voltage range	Select between 3 steps by using the intensity range selector (RANGE).	
	Manual	Set any of 256 steps via the setting switch. Press and hold the switch fo seconds to lock the intensity value.		
	Parallel communication	8-bit intensity value setting (B0 to B7) and write signal (WR)		
	External	Serial communication	Command input via EIA-485 communication	
		Analog input	Analog voltage (0 V to +5 V)	
		External control mode can be selected by pushing the setting switch while turning ON the power.		
ON/OFF control		Parallel bit input	Lighting signal (OFF)	
		Serial communication	Command input via EIA-485 communication	
EIA-485 communication settings		ID	Set by using the ID switch (00 to 03) Connect up to four units	
		Terminating resistance	Set by using the ID switch (Terminating resistance is ON only when ID = 00)	
Lighting dela	ay (typ.)	0.1 s		
Error detect	ion display	"Err" is displayed on the digital display.		
Error detection output		Errors are output and light output is stopped for an internal AC power error.		
		External control Connector	Error output terminal (OC, OE), photocoupler insulation, open-collector output, alert open (load current of 10 mA or less), and error status (serial communication)	

Overcurrent protection	Operates at 105% of the rated current or higher. Resets by cycling the Control Unit.		
Overvoltage protection	Operates at 120% to 155% of the rated voltage. Resets by cycling the Control Unit.		
Input voltage (rated)	100 to 240 VAC (+10% - 15%), 50/60 Hz		
Power consumption (typ.)	410 VA		
Frequency	50/60 Hz		
Inrush current (typ.)	40 A at cold start		
Ground leakage current	3.5 mA max. (264 VAC, 60 Hz, with no load)		
Output voltage variation range (typ.)	Select between 3 steps by using the intensity range selector.		
	12 V to 24 V with no load		
	15 V to 24 V with no load		
	18 V to 24 V with no load		
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)		
Vibration resistance	Acceleration: 19.6 m/sec², Frequency: 10 to 55 Hz, Cycle: 3 min., Sweep cycle: each hour in the X, Y, and Z directions		
Cooling method	Forced air cooling		
CE marking	Safety standard: Conforms to EN61010-1, EMC standard: Conforms to EN61326-1 Class A		
Environmental regulations	RoHS compliant		
Material, coating, surface processing	Steel plate, Thickness of cover: 1.0, Thickness of chassis: 1.6, N3 leather tone finish		
Weight	2,300 g max.		
Accessories	3-prong AC cord with ground terminal (2 m) x 1, Instruction Guide x 1		

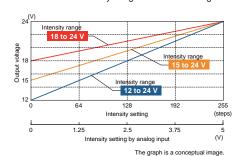
# Dimensions (mm)



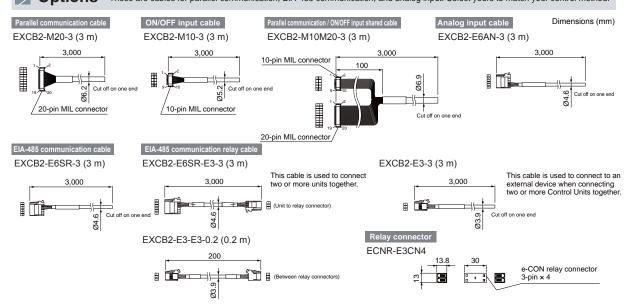
### Intensity Range

Optimize your intensity setting with the intensity lower limit selection function.

You can choose an intensity range to match the Light Unit.



Options These are cables for parallel communication, EIA-485 communication, and analog input. Select yours to match your control method.



You can inquire using our website.

Testing

Light Unit Selection Free Product Trial Custom Orders Product Details Pricing/ Quotation Discontinued Products HOURS
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