

Vision Light Tech B.V. Protonenlaan 22, 5405 NE UDEN, P.O. Box 345, 5400 AH UDEN, The Netherlands Phone: +31 (0)413 26 00 67, Fax +31 (0)413 26 09 38, E-mail: inquiry@vlt.nl, Website: www.vlt.nl Trade register No. 17150044, VAT No. NL8112.30.946.B01

## **Digital Control Units** PD3-3024-3 Series Select a Digital Control Unit for

Your Network Configuration

The PD-3024-3 is a series of high-performance Digital Control Units with a full suite of external control functions. Parallel, EIA-485, and Ethernet communications protocols are all supported for external control. There are three output channels for Light Units and each can be controlled independently. The light intensity can be set to any of 256 different levels. And constant lighting, ON/OFF lighting, and strobe lighting modes are supported.

Strobe Lighting Times

40 µs/80 µs/120 µs/200 µs/600 µs/1 ms/4 ms/10 ms/20 ms/40 ms/ \* These Control Units do not include an overdrive

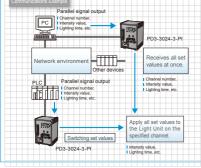
### Three Types of External Control

PD3-3024-3-PI

Select from parallel, EIA-485, and Ethernet models.

The Parallel Model offers the fastest time for switching between set values. Parallel signal reception enables high-speed control.





Manual/external mode selector ID switch External control connector External trigge



PD3-3024-3-SI

The EIA-485 Model enables

multi-drop wiring for

individual management of

up to four Control Units.

TTT

Use the optional Relay Cable for EIA-485 Communications (EXCB2-E3-E3-0.2) for multi-drop wiring

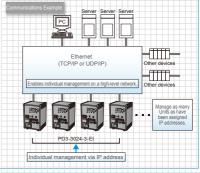


PD3-3024-3-EI

The Ethernet Model supports the standard TCP/IP

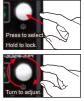
and UDP/IP protocols for

maximum convenience.





pushbutton dial Intensity setting to any Strobe lighting time setting

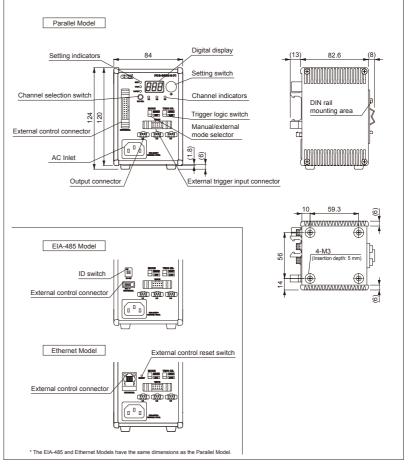


**Control Un** 

#### **Common Specifications**

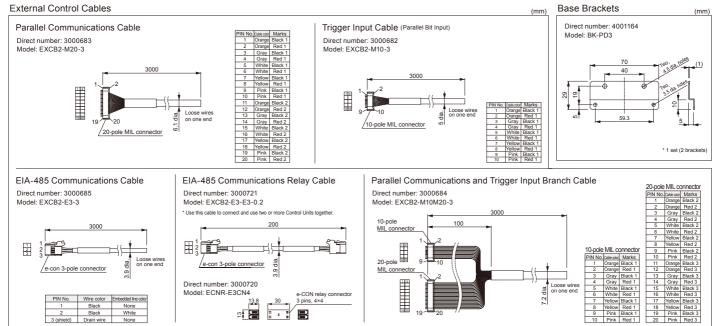
Lighting method	Constant lighting					
Drive method	Constant-voltage system					
Light intensity control method	PWM control and lighting time control.					
Number of channels	3 channels					
Applicable Light Unit rating	24 V, 28 W					
PWM frequency	125 kHz					
Error detection display	"OCP" displayed on front-panel digital display					
Overcurrent protection*	Operates at 107% of the rated current. Reset when power is restored.					
Rated input voltage	100 to 240 VAC					
Power consumption (typ.)	78 VA					
Frequency	50/60 Hz					
Rated output voltage	24 VDC					
Rated output current	Total for 3 channels: 1.1 A					
Operating temperature and humidity						
Storage temperature and humidity						
Cooling method	Natural air cooling					
CE Marking	Safety standard: Conforms to EN 61010-1, EMC standard: Conforms to EN 61326, Clas	s A.				
Material and surface processing						
Weight	600 g max.					
Accessories	2-m long 3-prong power cord with ground terminal					
	uit the positive and negative output terminals.					
-						
	(Parallel Model) Specifications					
Direct number	2000775					
Direct number	2000775					
	2000775   Manual 256 levels set via the front setting switch					
Light intensity setting		EL2)				
	Manual 256 levels set via the front setting switch	EL2)				
Light intensity setting ON/OFF setting	Manual 256 levels set via the front setting switch   External 8-bit input (B0 to B7), write pulse (BRTWR), channel select (CHSEL0 to CHSEL0 to CH	EL2)				
Light intensity setting	Manual 256 levels set via the front setting switch   External 8-bit input (B0 to B7), write pulse (BRTWR), channel select (CHSEL0 to CHSE   External trigger input					
Light intensity setting ON/OFF setting Lighting mode setting	Manual 256 levels set via the front setting switch   External 8-bit input (B0 to B7), write pulse (BRTWR), channel select (CHSEL0 to CHSI External trigger input   Manual 11 levels set via the front setting switch					
Light intensity setting ON/OFF setting	Manual 256 levels set via the front setting switch   External 8-bit input (B0 to B7), write pulse (BRTWR), channel select (CHSEL0 to CHSI   External 11 levels set via the front setting switch   External 11 levels set via the front setting switch   External 4-bit input (M0 to M3), write pulse (TRGWR), channel select (CHSEL0 to CHSI					
Light intensity setting ON/OFF setting Lighting mode setting Error detection output	Manual 256 levels set via the front setting switch   External 8-bit input (B0 to B7), write pulse (BRTWR), channel select (CHSEL0 to CHSI External trigger input   Manual 11 levels set via the front setting switch   External 4-bit input (M0 to M3), write pulse (IRGWR), channel select (CHSEL0 to CHSI Transistor output to external control connector pins 19 and 20.   Normal operation: OFF   Overcurrent output detected: ON					
Light intensity setting ON/OFF setting Lighting mode setting	Manual 256 levels set via the front setting switch   External 8-bit input (B0 to B7), write pulse (BRTWR), channel select (CHSEL0 to CHSI External trigger input   Manual 11 levels set via the front setting switch   External 4-bit input (M0 to M3), write pulse (IRGWR), channel select (CHSEL0 to CHSI Transistor output to external control connector pins 19 and 20.   Normal operation: OFF   Overcurrent output detected: ON					
Light intensity setting ON/OFF setting Lighting mode setting Error detection output External control connector	Manual 256 levels set via the front setting switch   External 8-bit input (B0 to B7), write pulse (BRTWR), channel select (CHSEL0 to CHSI   External 11 levels set via the front setting switch   External 4-bit input (M0 to M3), write pulse (TRGWR), channel select (CHSEL0 to CHSI   External 4-bit input (M0 to M3), write pulse (TRGWR), channel select (CHSEL0 to CHSI   Transistor output to external control connector pins 19 and 20. Normal operation: OFF   Overcurrent output detected: ON Trigger input   Trigger input 10-pole MIL connector   Intensity and lighting mode settings 20-pole MIL connector					
Light intensity setting ON/OFF setting Lighting mode setting Error detection output External control connector PD3-3024-3-S	Manual 256 levels set via the front setting switch   External 8-bit input (B0 to B7), write pulse (BRTWR), channel select (CHSEL0 to CHSI   External rigger input Manual   Manual 11 levels set via the front setting switch   External rigger input Transistor output to external control connector pins 19 and 20.   Normal operation: OFF Overcurrent output detected: ON   Trigger input 10-pole MIL connector   Intensity and lighting mode settings 20-pole MIL connector   (EIA-485 Model) Specifications 10-pole MIL connector					
Light intensity setting ON/OFF setting Lighting mode setting Error detection output External control connector	Manual 256 levels set via the front setting switch   External 8-bit input (B0 to B7), write pulse (BRTWR), channel select (CHSEL0 to CHSI   External trigger input 11 levels set via the front setting switch   External 4-bit input (M0 to M3), write pulse (TRGWR), channel select (CHSEL0 to CHSI   External 4-bit input (M0 to M3), write pulse (TRGWR), channel select (CHSEL0 to CHSI   Transistor output to external control connector prins 19 and 20.   Normal operation: OFF Overcurrent output detected: ON   Trigger input 10-pole MIL connector   Intensity and lighting mode settings 20-pole MIL connector   (EIA-4&85 Model) Specifications   200777 2000777					
Light intensity setting ON/OFF setting Lighting mode setting Error detection output External control connector PD3-3024-3-S	Manual 256 levels set via the front setting switch   External 8-bit input (B0 to B7), write pulse (BRTWR), channel select (CHSEL0 to CHSI   External 11 levels set via the front setting switch   External 4-bit input (M0 to M3), write pulse (TRGWR), channel select (CHSEL0 to CHSI   Transistor output to external control connector pulse (TRGWR), channel select (CHSEL0 to CHSI   Transistor output to external control connector pulse (TRGWR), channel select (CHSEL0 to CHSI   Transistor output to external control connector pulse (TRGWR), channel select (CHSEL0 to CHSI   Transistor output to external control connector pulse (TRGWR), channel select (CHSEL0 to CHSI   Transistor output to external control connector pulse (TRGWR), channel select (CHSEL0 to CHSI   Transistor output to external control connector pulse (TRGWR), channel select (CHSEL0 to CHSI   Trigger input 10-pole MIL connector   Intensity and lighting mode settings 20-pole MIL connector   CEIA-485 MOdel) Specifications   2000777 Manual 256 levels set via the front setting switch					
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Light intensity setting ON/OFF setting Lighting mode setting Error detection output External control connector PD3-3024-3-S Direct number	Manual 256 levels set via the front setting switch   External 8-bit input (B0 to B7), write pulse (BRTWR), channel select (CHSEL0 to CHSI   External trigger input Manual 11 levels set via the front setting switch   External 4-bit input (M0 to M3), write pulse (TRGWR), channel select (CHSEL0 to CHSI   External 4-bit input (M0 to M3), write pulse (TRGWR), channel select (CHSEL0 to CHSI   Transistor output to external control connector prins 19 and 20.   Normal operation: OFF Overcurrent output detected: ON   Trigger input 10-pole ML connector   Intensity and lighting mode settings 20-pole ML connector   (EIA-485 Model) Specifications   2000777 456 levels set via the front setting switch   External Command input through EIA-485 communic					
Light intensity setting ON/OFF setting Lighting mode setting Error detection output External control connector PD3-3024-3-S Direct number Light intensity setting	Manual 256 levels set via the front setting switch   External 8-bit input (B0 to B7), write pulse (BRTWR), channel select (CHSEL0 to CHSI   External 1690 to F7), write pulse (BRTWR), channel select (CHSEL0 to CHSI   External 11 levels set via the front setting switch   External 11 levels set via the front setting switch   External 1400 to M3), write pulse (TRGWR), channel select (CHSEL0 to CHSI   Transistor output to external control connector pirs 19 and 20.   Normal operation: OFF Overcurrent output detected: ON   Trigger input 10-pole MIL connector   Intensity and lighting mode settings 20-pole MIL connector   Intensity and lighting mode settings 20-pole MIL connector   Manual 256 levels set via the front setting switch   External Command input through EIA-485 communications   External Command input through EIA-485 communications   External 11 levels set via the front setting switch					
Light intensity setting ON/OFF setting Lighting mode setting Error detection output External control connector PD3-3024-3-S i Direct number Light intensity setting ON/OFF setting Lighting mode setting	Manual 256 levels set via the front setting switch   External 8-bit input (B0 to B7), write puise (BRTWR), channel select (CHSEL0 to CHSI   External rigger input Manual 11 levels set via the front setting switch   External rigger input Manual 11 levels set via the front setting switch   External rigger input Manual 11 levels set via the front setting switch   External rigger input Manual operation: OFF Overcurrent output detected: ON   Trigger input 10-pole MIL connector Intensity and lighting mode settings   11ntensity and lighting mode settings 20-pole MIL connector   Kettranial 256 levels set via the front setting switch   External Command input through EIA-485 communications   External Command input through EIA-485 communic   Manual 11 levels set via the front setting switch   External Command input through EIA-485 communic   Manual 11 levels set via the front setting switch					
Light intensity setting ON/OFF setting Lighting mode setting Error detection output External control connector PD3-3024-3-S Direct number Light intensity setting ON/OFF setting	Manual 256 levels set via the front setting switch   External 8-bit input (B0 to B7), write pulse (IRRTWR), channel select (CHSEL0 to CHSI   External 108 to B7), write pulse (IRGWR), channel select (CHSEL0 to CHSI   External 4-bit input (M0 to M3), write pulse (IRGWR), channel select (CHSEL0 to CHSI   Transistor output to external control connector prins 19 and 20.   Normal operation: OFF Overcurrent output detected: ON   Trigger input 10-pole MIL connector   Intensity and lighting mode settings 20-pole MIL connector   (EIA-485 Model) Specifications   2000777 456 levels set via the front setting switch   External Command input through EIA-485 communic   Manual 11 levels set via the front setting switch   External Command input through EIA-485 communic   Manual 11 levels set via the front setting switch   External Command input through EIA-485 communic   Manual 11 levels set via the front setting switch   External Command input through EIA-485 communic   Manual 11 levels set via the front setting switch   External Command input through EIA-485 communic   M					
Light intensity setting ON/OFF setting Lighting mode setting Error detection output External control connector PD3-3024-3-S i Direct number Light intensity setting ON/OFF setting Lighting mode setting	Manual 256 levels set via the front setting switch   External 8-bit input (B0 to B7), write pulse (BRTWR), channel select (CHSEL0 to CHSI   External rigger input Manual   Manual 11 levels set via the front setting switch   External rigger input Transistor output to external control connector pins 19 and 20.   Normal operation: OFF Overcurrent output detected: ON   Trigger input 10-pole MIL connector   Intensity and lighting mode settings 20-pole MIL connector   Intensity and lighting mode settings 20-pole MIL connector   Manual 256 levels set via the front setting switch   External Command input through EIA-485 communications   External Command input through EIA-485 communications   Command input through EIA-485 communications Command input through EIA-485 communications   Command input through EIA-485 communications Command input through EIA-485 communications					
Light intensity setting ON/OFF setting Lighting mode setting Error detection output External control connector PD3-3024-3-S i Direct number Light intensity setting ON/OFF setting Lighting mode setting Error detection output	Manual 256 levels set via the front setting switch   External 8-bit input (B0 to B7), write puise (BRTWR), channel select (CHSEL0 to CHSI   External 168 to B7), write puise (IRGWR), channel select (CHSEL0 to CHSI   External 14 to it mput (M0 to M3), write puise (TRGWR), channel select (CHSEL0 to CHSI   Transistor output to external output control connector pins 19 and 20.   Normal operation: OFF Overcurrent output detected: ON   Trigger input 10-pole MIL connector   Intensity and lighting mode settings 20-pole MIL connector   Intensity and lighting mode settings 20-pole MIL connector   External Command input through EIA-485 communications   External Command input through EIA-485 communic   Manual 11 levels set via the front setting switch   External Command input through EIA-485 communic   Manual 11 levels set via the front setting switch   External Command input through EIA-485 communic   Manual 11 levels set via the front setting switch   External Command input through EIA-485 communic   Manual 11 levels set via the front setting switch   External Command input through EIA-485 communic<					
Light intensity setting ON/OFF setting Lighting mode setting Error detection output External control connector PD3-3024-3-S Direct number Light intensity setting ON/OFF setting Lighting mode setting Error detection output External control connector	Manual 256 levels set via the front setting switch   External 8-bit input (B0 to B7), write pulse (BRTWR), channel select (CHSEL0 to CHSI   External 1680 to B7), write pulse (BRTWR), channel select (CHSEL0 to CHSI   External 1180 to B7), write pulse (TRGWR), channel select (CHSEL0 to CHSI   External 1180 to B7), write pulse (TRGWR), channel select (CHSEL0 to CHSI   Transistor output to external control connector pins 19 and 20.   Normal operation: OFF Overcurrent output detected: ON   Trigger input 10-pole MIL connector   Intensity and lighting mode settings 20-pole MIL connector   Intensity and lighting mode settings 20-pole MIL connector   Manual 256 levels set via the front setting switch   External Command input through EIA-485 communications   External Command input through EIA-485 communications   External Command input through EIA-485 communications   Command is sent when overcurrent output is detected. Trigger input   Trigger input 10-pole MIL connector   Intensity and lighting mode settings e-CON 3-pole connector					
Light intensity setting ON/OFF setting Lighting mode setting Error detection output External control connector PD3-3024-3-S i Direct number Light intensity setting ON/OFF setting Lighting mode setting Error detection output External control connector PD3-3024-3-E i	Manual 256 levels set via the front setting switch   External 18-bit input (B0 to B7), write pulse (BRTWR), channel select (CHSEL0 to CHSI   External 18-bit input (B0 to B7), write pulse (IRGWR), channel select (CHSEL0 to CHSI   External 14-bit input (M0 to M3), write pulse (IRGWR), channel select (CHSEL0 to CHSI   Transistor output to external output control connector pins 19 and 20.   Normal operation: OFF Overcurrent output detected: ON   Trigger input 10-pole MIL connector   Intensity and lighting mode settings 20-pole MIL connector   Intensity and lighting mode settings 20-pole MIL connector   External Command input through EIA-485 communications   External Command input through EIA-485 communic   Manual 11 levels set via the front setting switch   External Command input through EIA-485 communic   Manual 11 levels set via the front setting switch   External Command input through EIA-485 communic   Manual 11 levels set via the front setting switch   External Command input through EIA-485 communic   Manual 11 levels set via the front setting switch   External Command input through EIA-					
Light intensity setting ON/OFF setting Lighting mode setting Error detection output External control connector PD3-3024-3-S Direct number Light intensity setting ON/OFF setting Lighting mode setting Error detection output External control connector	Manual 256 levels set via the front setting switch   External 8-bit input (B0 to B7), write pulse (BRTWR), channel select (CHSEL0 to CHSI   External rigger input Manual 11 levels set via the front setting switch   External 4-bit input (B0 to B7), write pulse (IRGWR), channel select (CHSEL0 to CHSI   External 11 levels set via the front setting switch   External 4-bit input (M0 to M3), write pulse (IRGWR), channel select (CHSEL0 to CHSI   Transistor output to external control connector pins 19 and 20.   Normal operation: OFF Overcurrent output detected: ON   Trigger input 10-pole MIL connector   Intensity and lighting mode settings 20-pole MIL connector   Manual 256 levels set via the front setting switch   External Command input through EIA-485 communications   External Command input through EIA-485 communications   Command input through EIA-485 communications Command input through EIA-485 communications   Command input through EIA-485 communications Command input through EIA-485 communications   Command input through EIA-485 communications Command input through EIA-485 communications   Command is sent when overcurrent output is detected. Trigger input 10					
Light intensity setting ON/OFF setting Lighting mode setting Error detection output External control connector PD3-3024-3-S i Direct number Light intensity setting ON/OFF setting Lighting mode setting Error detection output External control connector PD3-3024-3-E i	Manual 256 levels set via the front setting switch   External 180 to B7, write puble (BRTWR), channel select (CHSEL0 to CHSI   External 180 to B7, write puble (BRTWR), channel select (CHSEL0 to CHSI   External 140 tit nput (M0 to M3), write puble (TRGWR), channel select (CHSEL0 to CHSI   Transistor output to external output control connector pins 19 and 20.   Normal operation: OFF Overcurrent output detected: ON   Trigger input 10-pole MIL connector   Intensity and lighting mode settings 20-pole MIL connector   Intensity and lighting mode settings 20-pole MIL connector   Manual 256 levels set via the front setting switch   External Command input through EIA-485 communications   External Command input through EIA-485 communic   Manual 11 levels set via the front setting switch   External Command input through EIA-485 communications   Command is sent when overcurrent output is detected. Trigger input   Trigger input 10-pole MIL connector   Intensity and lighting mode settings e-CON 3-pole connector   Intensity and lighting mode settings e-CON 3-pole connector   Intensity and lighting mode settings					
Light intensity setting ON/OFF setting Lighting mode setting Error detection output External control connector PD3-3024-3-S i Direct number Light intensity setting ON/OFF setting Lighting mode setting Error detection output External control connector PD3-3024-3-E i Direct number Light intensity setting	Manual 256 levels set via the front setting switch   External if oper input Manual 160 to B7), write puise (RRTWR), channel select (CHSEL0 to CHSI   External if oper input Manual 11 levels set via the front setting switch   External if oper input Manual 11 levels set via the front setting switch   External if oper input Manual 11 levels set via the front setting switch   External if optimut to external control connector prins 19 and 20. Normal operation: OFF   Overcurrent output detected: ON Trigger input 10-pole MIL connector   Intensity and lighting mode settings 20-pole MIL connector Intensity and lighting mode settings   2000777 Manual 256 levels set via the front setting switch External   External trigger input or Command input through EIA-485 communic Manual 11 levels set via the front setting switch   External trigger input or Command input through EIA-485 communications Command is sent when overcurrent output is detected.   Trigger input 10-pole MIL connector Intensity and lighting mode settings   Intensity and lighting mode settings e-CON 3-pole connector   Intensity and lighting mode settings e-CON 3-pole connector	EL2				
Light intensity setting ON/OFF setting Lighting mode setting Error detection output External control connector PD3-3024-3-S i Direct number Light intensity setting ON/OFF setting Lighting mode setting Error detection output External control connector PD3-3024-3-E i Direct number	Manual 256 levels set via the front setting switch   External 8-bit input (B0 to B7), write pulse (BRTWR), channel select (CHSEL0 to CHSI   External 1690 to B7), write pulse (BRTWR), channel select (CHSEL0 to CHSI   External 11 levels set via the front setting switch   External 4-bit input (M0 to M3), write pulse (TRGWR), channel select (CHSEL0 to CHSI   Transistor output to external control connector pirs 19 and 20.   Normal operation: OFF Overcurrent output detected: ON   Trigger input 10-pole MIL connector   Intensity and lighting mode settings 20-pole MIL connector   Intensity and lighting mode settings 20-pole MIL connector   Manual 256 levels set via the front setting switch   External Command input through EIA-485 communications   External Command input through EIA-485 communications   Command input through EIA-485 connunications Command input through EIA-485 connunications   Command input through EIA-485 connuncications Command input through EIA-485 connuncications   Command input through EIA-485 connuncications Command input through EIA-485 connuncications   Command input through EIA-485 connuncications Command input through EIA-485 connuncications	EL2				
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Light intensity setting ON/OFF setting Lighting mode setting Error detection output External control connector PD3-3024-3-S Direct number Light intensity setting ON/OFF setting Lighting mode setting Error detection output External control connector PD3-3024-3-E Direct number Light intensity setting ON/OFF setting Lighting mode setting	Manual 256 levels set via the front setting switch   External Tigger input Manual 180 to B7), write puise (RRTWR), channel select (CHSEL0 to CHSI   External Tigger input Manual 11 levels set via the front setting switch   External Tigger input Manual 11 levels set via the front setting switch   External Togger input Manual 11 levels set via the front setting switch   External Togger input 10-pole MIL connector Intensity and lighting mode setting   Intensity and lighting mode setting 20-pole MIL connector Intensity and lighting mode setting   2000777 Manual 256 levels set via the front setting switch External   External trigger input or Command input through EIA-485 communic Manual 11 levels set via the front setting switch   External trigger input or Command input through EIA-485 communic Manual 11 levels set via the front setting switch   External trigger input or Command input through EIA-485 communications Command input through EIA-485 communications   Command is sent when overcurrent output is detected. Trigger input 10-pole MIL connector   Intensity and lighting mode settings e-CON 3-pole connector Intensity and lighting mode settings	EL2				
Light intensity setting ON/OFF setting Lighting mode setting Error detection output External control connector PD3-3024-3-S i Direct number Light intensity setting ON/OFF setting Lighting mode setting Error detection output External control connector PD3-3024-3-E i Direct number Light intensity setting ON/OFF setting	Manual 256 levels set via the front setting switch   External Tigger input Manual 11 levels set via the front setting switch   External Tigger input Manual 11 levels set via the front setting switch   External Tigger input Transistor output to external control connector pirs 19 and 20.   Normal operation: OFF Overcurrent output detected: ON   Trigger input 10-pole MIL connector   Intensity and lighting mode settings 20-pole MIL connector   Intensity and lighting mode settings 20-pole MIL connector   Manual 256 levels set via the front setting switch   External Command input through EIA-485 communications   External Command input through EIA-485 communications   Command input through EIA-485 connector Intensity and lighting mode settings witch   External Command input through EIA-485 connector   Intensity and lighting mode settings e-CON 3-pole connector   Intensity and lighting mode settings e-CON 3-pole connector   Intensity and lighting mode settings witch External   Command input through TCP/IP UDP/IP communications External   Command input through TCP/IP UDP/IP communications External	EL2				
Light intensity setting ON/OFF setting Lighting mode setting Error detection output External control connector PD3-3024-3-S Direct number Light intensity setting ON/OFF setting Lighting mode setting Error detection output External control connector PD3-3024-3-E Direct number Light intensity setting ON/OFF setting Lighting mode setting	Manual 256 levels set via the front setting switch   External 1080 r 108 to 87, write pulse (RRTWR), channel select (CHSEL0 to CHSI   External 1080 r 108 to 87, write pulse (RRTWR), channel select (CHSEL0 to CHSI   External 1180 r 108 to 87, write pulse (TRGWR), channel select (CHSEL0 to CHSI   External 14-bit input (M0 to M3), write pulse (TRGWR), channel select (CHSEL0 to CHSI   Transistor output to external control connector pins 19 and 20.   Normal operation: OFF Overcurrent output detected: ON   Trigger input 10-pole MIL connector   Intensity and lighting mode settings 20-pole MIL connector   Intensity and lighting mode settings 20-pole MIL connector   External Command input through EIA-485 communications   External Command input through EIA-485 communic   Manual 11 levels set via the front setting switch   External Command input through EIA-485 communic   Manual 11 levels set via the front setting switch   External Command input through EIA-485 communic   Manual 11 levels set via the front setting switch   External Command input through TC-PIP UDP/IP communications   Command input through TC-PIP UDP/IP communications   External	EL2				

#### **Dimension Diagrams (mm)**



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#### Options



# **Control Units for CCS LED Lights**

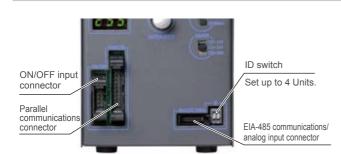
Please select a best-suited control unit according to your intended use and objective.

## **Analog Control Units** PSB3-30024 Analog Control Units with High Capacity of 300 W

The PSB3-30024 is a high-capacity (300 W) Analog Control Unit. Light Unit output is provided for one channel/four connectors (two metal connectors and two EL connectors). Light intensity can be set to any of 256 levels, even though the PSB3-30024 is an Analog Control Unit.Equipped for parallel, serial, or analog control all in a single Unit. Setting the light intensity has been optimized via the intensity range switch to select the optimal output for your Light Units. CE



### Parallel, Serial, and Analog Control in a Single Unit



Control mode	Description		
Parallel communications	Light intensity control	Control the intensity to 256 levels via parallel signal inputs.	
EIA-485	Light intensity control	Command input for 256 levels of intensity via EIA-485 communications.	
communications(serial)	ON/OFF control	Command input via EIA-485 communications	
Analog input	Light intensity control	Control the intensity to 256 levels via an analog voltage (0 to 5 V).	

#### **ON/OFF** input connector

ON/OFF control is possible in combination with parallel, serial, or analog control.					
ON/OFF control	ON/OFF control via OFF signal input (parallel bit method).				

#### Supports the reproducibility of intensity values through a digital display.



Setting switch

Quick operation through a pushbutton dial

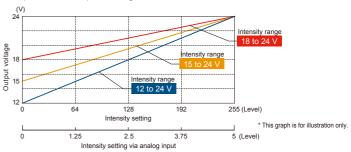
- · Intensity setting to any of 256 levels
- Turn ON the power supply while pressing the button for external control mode.
- · Push and hold for two seconds to lock the intensity value.



### **Optimal Intensity Settings through** Minimum Intensity Value Switching



Select the intensity range that best suits the Light Unit. \* Output characteristics depend on the Light Unit.



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**Control Un** 

#### **Common Specifications**

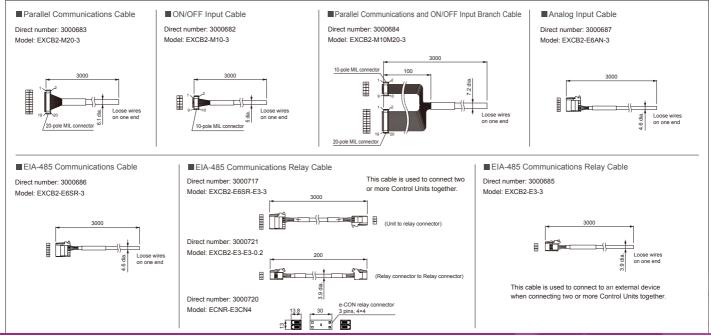
Model		PSB3-30024			
Direct number		2000762			
Lighting me	ethod	Constant lighting			
Drive method		Constant-voltage system			
Light intensity or	ontrol method	Variable-voltage control			
Number of c	channels	1 channel			
Applicable Ligh	nt Unit rating	24 V 300 W			
Light intensi	ity control	Manual and external intensity control	Front manual/external switch (MODE)		
		Variable output voltage range	Select between 3 ranges via the front intensity range selector (RANGE).		
	Manual	Set any of 256 levels via the s	etting switch. Press and hold the switch for 2 seconds to lock the intensity value.		
		Parallel communications	8-bit intensity value setting (B0 to B7) and write signal (WR)		
	E dame d	Serial communications	Command input via EIA-485 communications		
	External	Analog input	Analog voltage (0 to 5 V)		
		External control mode can be s	elected by pushing the setting switch while turning ON the power to the Control Unit.		
Lighting c	control	Parallel bit input	Lighting signal (OFF)		
		Serial communications	Command input via EIA-485 communications		
EIA-485		ID	Set via the front ID switch (00 to 03).		
communi	cations		Maximum of 4 connected Units.		
settings		Terminating resistance	Set via the front ID switch		
			(terminating resistance is ON only when the ID is 00).		
Lighting de	elay (typ.)	0.1 s			
Error detect					
Error detect	tion output	Error is output and light output is stopped for internal AC/DC error.			
		External control connector	Error output terminal (0C, 0E), photocoupler insulation, open-collector output, alarm open (load current of less than 20 mA), and error status (serial communications)		
Oursest					
Overcurrent		Operation is restored automatically at 105% of the rated current.			
Overvoltage protection		Operation is restored when the power is turned ON again at 120% to 155% of the rated current.			
Rated input voltage		100-240 VAC			
Power consumption (typ.)		410 VA			
Frequency		50/60 Hz			
Inrush current (typ.)		20 A/40 A (primary/secondary value at 100 VAC), 40 A/40 A (primary/secondary value at 240 VAC) * From a cold start			
Ground leakage current		3.5 mA max. (264 V AC, 60 Hz, with no load)			
Output voltage variation range (typ.)		Select between 3 ranges via the front intensity range selector.			
		12 to 24 V *With no load.			
		15 to 24 V *With no load. 18 to 24 V *With no load.			
Operating temperal	· · ·	Temperature: 0 to 40°C, Humidity: 20% to 85%RH (with no condensation)			
Storage temperat	,	Temperature: -20 to 60°C, Humidity: 20% to 85%RH (with no condensation)			
Vibration re		Acceleration: 19.6 m/s <sup>2</sup> , frequency: 10 to 55 Hz, cycles: 3 minutes, sweep cycle: for 1 hour each in X, Y, and Z directions			
Cooling m		Forced air cooling			
CE Marki	·	Conforms to safety standard EN 61010-1. Conforms to EMC standard EN 61326-1, Class A.			
Environmenta	I regulations	RoHS compliant			
		Steel plate, thickness of cover: 1.0, thickness of chassis: 1.6, N3 leather tone finish			
Weight		2,300 g max.			
Accessories 2-meter long 3-prong power cord with ground terminal (1)					

#### Setting switch (Pushbutton dial Manual/externa mode selector Digital display 97 245 Parallel communication Intensity range connector 00000 selector ### Ò Fan exhaust outlets Þ ID switch Fan air inlets ON/OFF input connecto Analog input and EIA-485 communications connector Side View Front 196 Output connector (Metal connector) Output connecto an exhaust (EL connector) outlets Four, M3 bottom mounting screws (Insertion depth of 5 mm max.) þ AC inlet 65 ⊙ • • Power switch 0 Bottom view Rear view

#### Options

#### External Control Cables

These cables are used for parallel communications, EIA-485 communications, and the analog input. Select the right cable for the required control method.



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### **Dimension Diagrams (mm)**