Control Units

High Power Strobe Control Units **PF** Series

Enables "extreme power" strobe lights

Dedicated for the High Power Strobe Light Units



Strobe time







C Compliant

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

(2 channel model)

PF-A16048-4 (4 channel model)

High Power Strobe Lights PF series

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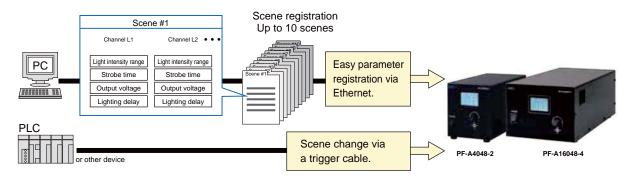
Features

- Dedicated Control Unit for the High Power Strobe Lights PF series

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- Light intensity: 512 levels
- Minimum strobe time of 1 µs
- Lighting delay time: 0 to 100 µs (in steps of 0.1 µs)
- 2 channels (PF-A4048-2), 4 channels (PF-A16048-4)
 - Ethernet and parallel communications
- Sets of parameters related to light control can be registered.
- Trigger link function (PF-A16048-4)

You can make the Light Units on multiple channels turn ON (or OFF) with a single trigger signal that is input through one of the pins of the trigger input connector.

Registering Scenes (sets of parameters)

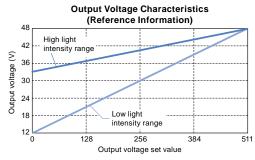


You can register sets of parameters called scenes that consist of the light control settings for all channels. By just applying a scene to the channels, you can easily change the settings. Up to 10 scenes can be registered. Refer to the "Instruction Guide" for operation details.

Light Intensity Ranges

Each channel can be set to either of the light intensity ranges below. The output voltage of the output connectors varies depending on the light intensity range.

- · High light intensity range (default): 33 to 48 VDC
- · Low light intensity range: 12 to 48 VDC





PD3 PD2

PSB POD PTU2 CN-4024-2-EIP PB-2430-1 CC-ST-1024 ВВ PJ2 PJ CC-PJ-0707 PSCC PSB4-30024 PSB3-30024

STU-3000

Diffusion Plates

Polarizing Plates

Light Control Films

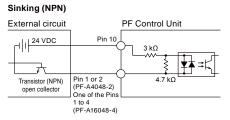
Brackets Fixtures, etc. SM/EL Cables

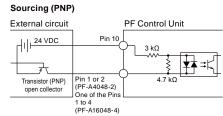
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Example Connections

Refer to the "Instruction Guide" for details.

Example connections of external trigger signal



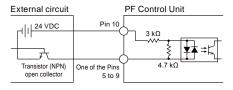


Connection specifications for each terminal							
	Maximum input voltage	Photocoupler ON voltage / ON current	Photocoupler OFF voltage / OFF current	Response time			
24 VDC 26.4 VDC 21.6 V DC min. / 7 mA min.		1.5 V DC max. / 1 mA max.	Refer to the sequence diagrams on the Instruction Guide.				

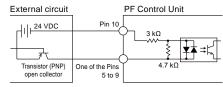
Setting of the LCG-TRG item on the COM Menu	Photocoupler	Light Unit status
ACTIVE HI	ON	No change
ACTIVE III	OFF	Light Unit flashes for the strobe time.
40TU/F L 0	ON	Light Unit flashes for the strobe time.
ACTIVE LO	OFF	No change

Example connections of external trigger signal (Applying scenes)





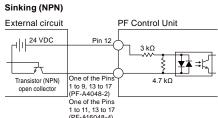
Sourcing (PNP)



	Dai	ta
Photocoupler	item on the COM Menu	When the LGC-PAR item on the COM Menu is set to ACTIVE LO
ON	1	0
OFF	0	1

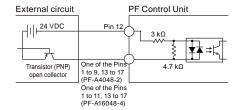
Scene number		Da	LCD		
Scene number	SC3	SC2	SC1	SC0	LCD
00	0	0	0	0	S01
01	0	0	0	1	S02
02	0	0	1	0	S03
03	0	0	1	1	S04
04	0	1	0	0	S05
05	0	1	0	1	S06
06	0	1	1	0	S07
07	0	1	1	1	S08
08	1	0	0	0	S09
09	1	0	0	1	S10

Example connections of external signal (Parallel communications)



(PF-A16048-4)							
Data							
item on the COM Menu	When the LGC-PAR item on the COM Menu is set to ACTIVE LO						
1	0						
0	1						
	Dar When the LGC-PAR item on the COM Menu						

Sourcing (PNP)



Connection specifications for each terminal							
		Maximum input voltage		Photocoupler OFF voltage / OFF current	Response time		
	24 VDC	26.4 VDC	21.6 V DC min. / 7 mA min.		Refer to the sequence diagrams on the Instruction Guide.		

PSB4-30024

PSB3-30024

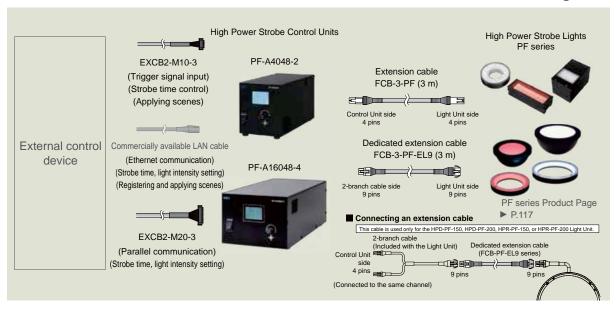
SM/EL Cables



Example System Configuration

Example:

External control device — External control cable — Control Unit — Extension cables — LED Ligh



Specifications

Model name	PF-A4048-2, PF-A16048-4					
Lighting method	Strobe lighting					
Drive method	Constant-voltage system					
Intensity control method	Variable-voltage control, Strobe time control					
Number of channels	PF-A4048	3-2	2 channels			
	PF-A16048-4 4 channels					
Number of output	PF-A4048	-2	L1: 2, L2: 1			
connectors	PF-A1604	8-4	L1: 2, L2: 2, L3: 2, L4: 2			
Applicable Light Unit (ratings)			High Power S	Strobe Light Units		
Output voltage	Manual	Operation	on on the front panel			
settings	Federatel	Comma	nd input via TCP/IP or UDP/IP communications	512 levels		
	External	Signal ii	nput through parallel port			
Oth - ti	Manual	Operation	on on the front panel	DE A4040 0: 4 to 400 ::= (in stone of 0.4 ::=)		
Strobe time settings	External		nd input via TCP/IP or UDP/IP communications	PF-A4048-2: 1 to 100 μs (in steps of 0.1 μs) PF-A16048-4: 1 to 500 μs*1		
octango	External	Signal ii	nput through parallel port	ΤΤ 71100-10 -1. Τ 10 000 μ5		
Lighting delay	Manual	_	on on the front panel			
settings	External	Comma	nd input via TCP/IP or UDP/IP communications	0 to 100 μs (in steps of 0.1 μs)		
g-	External	Signal in	nput through parallel port			
Input power				AC (+10%, -15%), 50/60 Hz		
Power consumption (typ.)	PF-A4048-2 65 VA					
	PF-A1604	-	140 VA			
Inrush current (typ.)	PF-A4048-2 15 A (at 100 VAC), 36 A (at 240 VAC) from a co					
	PF-A1604	8-4	17 A (at 100 VAC), 40.8 A (at 240 VAC) from a			
Ground leakage current				264 VAC, 60 Hz, with no load)		
Output voltage (ratings)				ensity range: 33 to 48 VDC ensity range: 12 to 48 VDC		
Output current (peak)	PF-A4048-2		Total for 2 channels: 43.2 A (21.6 A/connector)			
	PF-A1604	8-4	Total for 4 channels: 172.8 A (21.6 A/connector	•		
Insulation withstand voltage (input-output, input-FG)				e minute, Cutoff current: 10 mA, VDC, 20 MΩ min.		
Overvoltage category				Category II		
Operating environment				midity: 20% to 85% (with no condensation) ind class: Class I, Pollution degree: 2, Indoor use only		
Storage environment				umidity: 20% to 85% (with no condensation)		
Cooling method				orced air cooling		
CE marking				rd: Conforms to EN 61010-1 orms to EN61000-6-2, EN61000-6-4		
Environmental regulations			F	RoHS compliant		
Material, coating, and surface processing				Cover thickness: 1.6 mm, ess: 1.0 mm, Black (half matte)		
Weight	PF-A4048	3-2	1900 g max.			
	PF-A1604	8-4	3,300 g max.			
Accessories			Instruction guide, 2-m-long 3	-prong AC power cord with ground terminal		

^{*1} For Ethernet communications: 1 to 100 µs (in steps of 0.1 µs), 100.5 to 500 µs (in steps of 0.5 µs)
For parallel communications: High strobe time range (5 to 500 µs, in steps of 0.5 µs), Low strobe time range (1 to 100 µs, in steps of 0.1 µs)



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Digital Catalogs



PD3

PD2

POD

PTU2 CN-4024-2-EIP PB-2430-1 CC-ST-1024 BB PJ2

STU-3000 PSB

CC-PJ-0707

PSB4-30024

PSB3-30024

Diffusion Plates

Polarizing Plates Light Control Films

Brackets Fixtures, etc. SM/EL Cables

PSCC

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Dimensions (mm)

Options

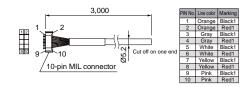
External control cables

Trigger input cable

Used to input a external trigger signal of parallel bits. Used for performing strobe lighting and scene application.



Model name: EXCB2-M10-3

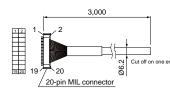


Parallel communication cable

Used for performing external control via parallel communication.



Model name: EXCB2-M20-3



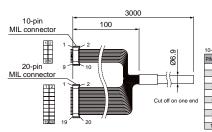
	PIN No.	Line color	Marking	PIN No.	Line color	Marking
	1	Orange	Black1	11	Orange	Black2
	2	Orange	Red1	12	Orange	Red2
	3	Gray	Black1	13	Gray	Black2
	4	Gray	Red1	14	Gray	Red2
	5	White	Black1	15	White	Black2
nd	6	White	Red1	16	White	Red2
Iu	7	Yellow	Black1	17	Yellow	Black2
	8	Yellow	Red1	18	Yellow	Red2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

Parallel communication/Trigger input branch cable

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



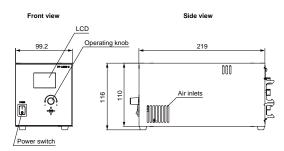
Model	name:	EXCB2-M ²	10M20-3

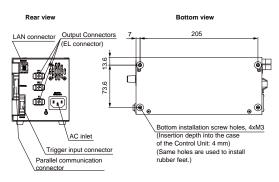


				3	Gray	Black2
				4	Gray	Red2
				5	White	Black2
				6	White	Red2
				7	Yellow	Black2
nin (MIL conn	ontor		8	Yellow	Red2
_	=			9	Pink	Black2
IN No.	Line color	Marking		10	Pink	Red2
1	Orange	Black1		11	Orange	Black3
2	Orange	Red1		12	Orange	Red3
3	Gray	Black1		13	Gray	Black3
4	Gray	Red1		14	Gray	Red3
5	White	Black1	ı	15	White	Black3
6	White	Red1		16	White	Red3
7	Yellow	Black1		17	Yellow	Black3
8	Yellow	Red1		18	Yellow	Red3
9	Pink	Black1		19	Pink	Black3
10	Pink	Red1	ı	20	Pink	Red3

Dimensions (mm)

PF-A4048-2





PF-A16048-4

