

AP Analog Voltage Controller **Patented**



Selection Guide

OPT-AP1024F-X

- Channels
- Additional info.: panel type
- Max. output voltage: 24V
- Max. output current: 1A
- Analog voltage controller
- Brand name

Model	Channels	Compatible Light
OPT-AP1024F-1	1	10mA - 1A (24V)
OPT-AP1024F-2	2	10mA - 1A (24V)
OPT-AP1024F-3	3	10mA - 1A (24V)
OPT-AP1024F-4	4	10mA - 1A (24V)

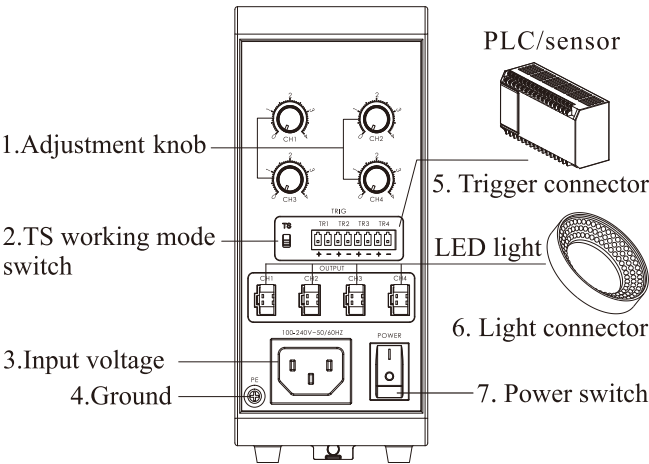
Product Features

- Manual stepless intensity control
- External trigger: External trigger input (e.g. camera trigger signal) for related light strobes and other sequences. (Strobe mode can greatly improve light source life expectancy.)
- Convenient mounting with screws or on DIN rails

Specifications

Item	Parameter	Description
Input voltage	100 - 240V AC 50/60Hz	
Input current	1.8A/115VAC 1A/230VAC	
Output voltage	14.0-24.0V ($\pm 0.2V$)	Continuously adjustable
Lighting mode	Continuous/strobe	
Intensity control	Stepless	Via the adjustment knob
Triggering	Switch	
Response time	$\geq 80\mu s$	See "Reference Table of Trigger Response Time" for details
Response frequency	$\leq 1kHz$	See "Reference Table of Trigger Response Time" for details
ON/OFF mode conversion	Support	Via the working mode switch (TS)
Output power	24W/CH	1CH/2CH total output $\leq 30W$ 3CH/4CH total output $\leq 40W$
Standby power consumption	1CH 2CH 3CH 4CH	$< 1.1W$ $< 1.1W$ $< 1.2W$ $< 1.2W$ Tested at 220V AC
Hi-Pot test	1500VAC 1min	Leakage current $< 10mA$
Insulation	500VDC	Insulation resistance $> 20M\Omega$
Operating temperature	$-5^{\circ}C - 50^{\circ}C$	
Dimensions (mm ³) (L × W × H)	73.5×129.2×166	Refer to the drawing for details
Weight (kg)	1CH/2CH 3CH/4CH	0.56 0.66

Device Overview

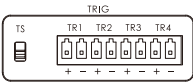


Remark: The image above is for AP1024F-4. The last number in Model AP1024F-1/2/3 indicates the number of adjustment knob, external trigger connector and light connector.

No.	Item	Description
1	Adjustment knob	Turned in clockwise to increase and in anti-clockwise to reduce light intensity.
2	TS working mode switch	Moved up for ON mode, and down for OFF mode
3	Input voltage	100 - 240V AC, 50/60Hz
4	Ground	Grounding protection
5	Trigger connector	Connects external trigger for strobe
6	Light connector	Each light is individually controlled
7	Power switch	Turns on/off the controller

Trigger Connector

AP1024F-1/2/3/4 offer 1, 2, 3, or 4 trigger channels respectively. Each channel has “+” and “-” input ports. The image below shows the trigger connector of AP1024F-4. Please refer to the “Switch Trigger Wiring Diagram” for more details.



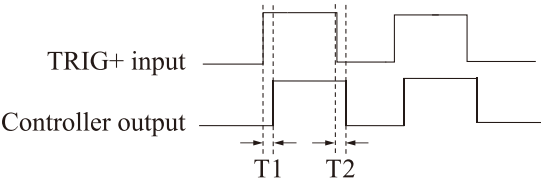
Working Mode Setting

TS Switch	Working Mode	Description
Up	ON	Light is on when “Trig+” and “Trig-” are disconnected; light is off at the short circuit.
Down	OFF	Light is off when “Trig+” and “Trig-” are disconnected; light is on at the short circuit.

Trigger Sequence

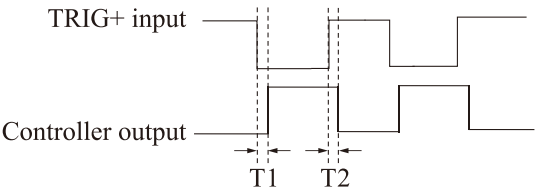
ON Mode:

After an external signal is connected, light is on when “Trig+” and “Trig-” are disconnected; light is off at the short circuit.



OFF Mode:

After an external signal is connected, light is off when “Trig+” and “Trig-” are disconnected; light is on at the short circuit.

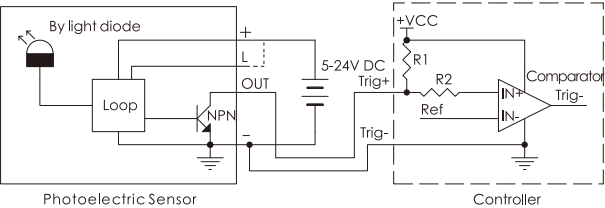


Remarks
T1: Enabling response time; T2: Disabling response time;
Please refer to the table of trigger response time for T1 and T2

Reference Table of Trigger Response Time

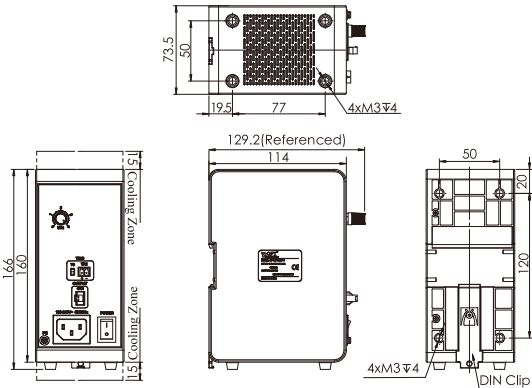
Working Mode \ Output Current (mA)	100		500		1000	
	T1 (μs)	T2 (μs)	T1 (μs)	T2 (μs)	T1 (μs)	T2 (μs)
ON Mode	300	3000	300	500	300	300
OFF Mode	80	3000	80	500	80	400

Switch Trigger Wiring Diagram



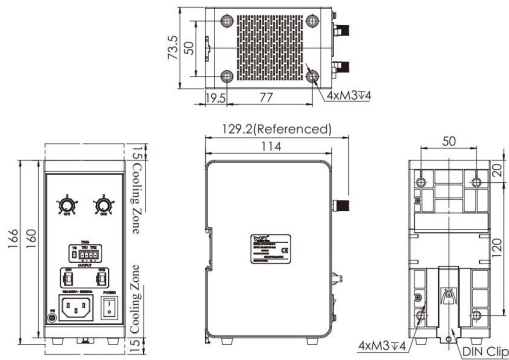
Dimensions (mm)

1.OPT-AP1024F-1

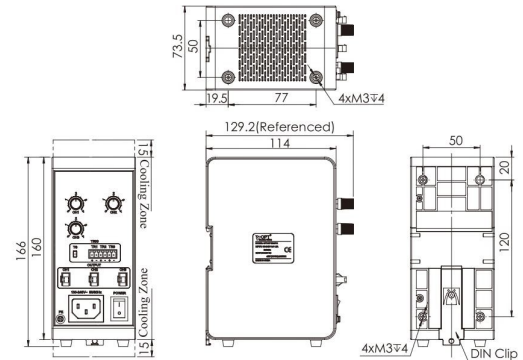


Dimensions (mm)

2.OPT-AP1024F-2



3.OPT-AP1024F-3



4.OPT-AP1024F-4

