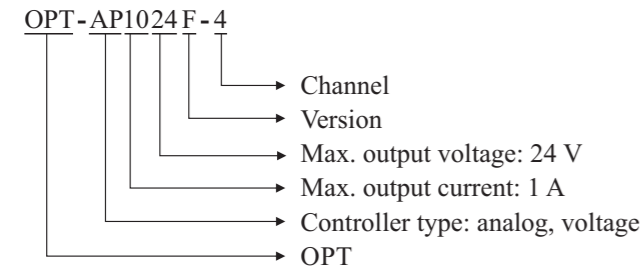


Analog Controller

Model No



Model	Channel	Light
OPT-AP1024F-1	1	for 24 V lights
OPT-AP1024F-2	2	for 24 V lights
OPT-AP1024F-3	3	for 24 V lights
OPT-AP1024F-4	4	for 24 V lights



Product Features

- 1 Continuous intensity control, gradeless
- 2 Trigger signal input: connect an external signal source (e.g. a camera trigger signal) for synchronized strobing of the illumination device. Width of the trigger pulse can be defined.
- 3 Easy to install: screw mount or DIN rail are available

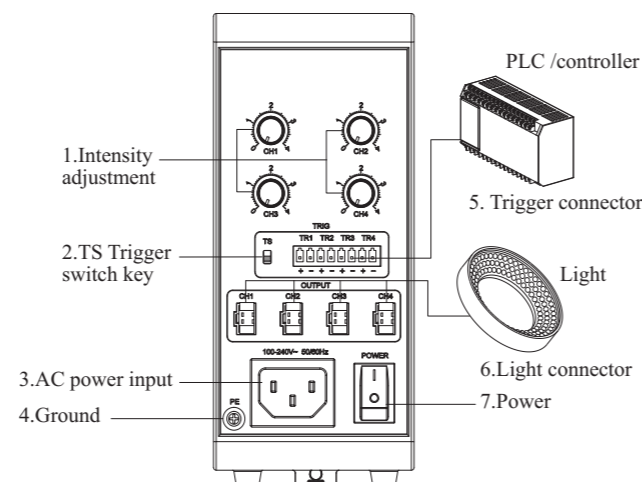
Device Overview

No.	Item	Description
1	Intensity adjustment	One key per channel
2	TS Trigger switch key	Switches the triggering on or off
3	AC power input	Input voltage 100 - 240 V AC, 50/60 Hz
4	Ground	Ground protection
5	Trigger connector	For connection with an external trigger source such as a PLC, sensor or camera
6	Light connector	For 24 V lights, < 1A
7	Power	Turns the controller on/off

Remark: Specification also widely valid for AP1024F-4 Number of connectors and light connectors of AP1024F-1/2/3 are 1, 2, or 3 respectively

Connection Setup

- Step 1: Turn the intensity adjustment wheels to zero (counterclockwise).
- Step 2: Connect the light with the controller; pls. refer to the drawing on the right.
- Step 3: For external triggering, connect the external trigger source with the trigger port.
- Step 4: Connect the controller with a 100 - 240 V AC power source and switch the controller on. The indicator is lit.
- Step 5: Turn the intensity adjustment key until the intended brightness of the light is reached.

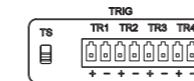


Parameter Description

Item	Parameter	Description
Input voltage	14.0 - 24.0 V (± 0.2 V)	Allows for continuous voltage adjustment
Intensity control	continuous	Manual adjustment key
Internal trigger	Synchronous strobe with external signal	
Trigger mode	Switch trigger	Supports NPN trigger
Trigger delay time	< 80 μ s	
External trigger frequency	Max. 1 kHz	
Trigger control	On/Off switch	To change the mode between ON and OFF through pressing the TS switch
Output power	20 W per channel	Total output power of AP1024F-1/2 < 30 W Total output power of AP1024F-3/4 < 40 W
Power	100 - 240 V AC 50/60 Hz	Input ordinary voltage
Standby power consumption	AP1024F-1	< 3.5 W
	AP1024F-2	< 3.6 W
	AP1024F-3	< 4.5 W
	AP1024F-4	< 5.0 W
		Tested at 220 V AC
Overvoltage resistance	1500 V AC, max. 1 minute	Leak current < 10 mA
Insulation resistance	500 V DC	Insulation resistance > 20 M Ω
Working temp.	-5°C - 50°C	
Size [mm]	166x73.5x129.5	
Weight [kg]	AP1024F-1/2	0.6 \pm 0.02
	AP1024F-3/4	0.7 \pm 0.02

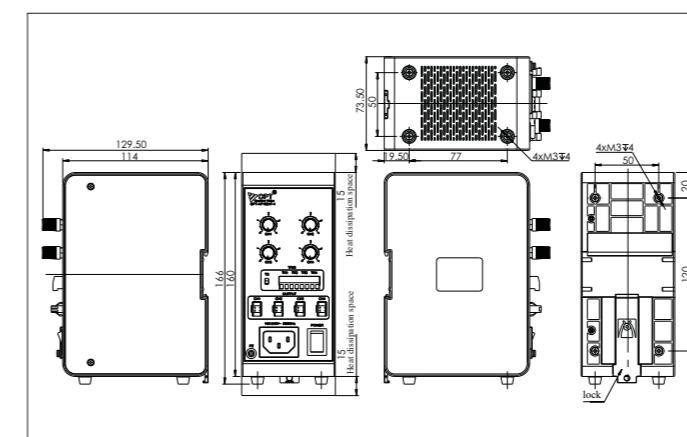
Trigger Port and Setup

AP1024F-1/2/3/4 offer 1, 2, 3, or 4 channels respectively, each channel has a "+" and "-" input port. See the drawing of the trigger port of AP1024F-4 below. Please refer to the connection scheme for detail.



TS	Trigger mode	Description
Up	Continuous on	Trig+ and Trig- port is disconnected, the light is continuous on; Trig+ and Trig- port is connected, the light is turned off.
Down	Turn off	Trig+ and Trig- port is disconnected, the light is turned off; Trig+ and Trig- port is connected, the light is continuous on.

Dimensions [mm]

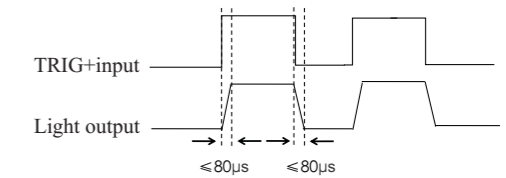


Remark: The housings of OPT-AP1024F-1/2/3/4 controllers have different sizes.

Sequence Diagram

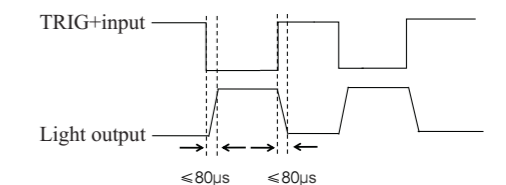
Continuous on mode

When the COM port connect the outside signal, the lighting is continuous on if the input signal of "trigger+" and "trigger-" port disconnected (high voltage trigger), the lighting is turned off if the input signal of "trigger+" and "trigger -" is connected (lower voltage trigger).



Turn off mode

When the COM port connect the outside signal, the lighting is turned off if the input signal of "trigger+" and "trigger-" port disconnected (high voltage trigger), the lighting is continuous on if the input signal of "trigger+" and "trigger -" is disconnected (lower voltage trigger).



Please find the wiring scheme of the switch and the trigger port below.

