

ANALOG CONSTANT VOLTAGE/CONSTANT CURRENT CONTROLLER



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ANALOG CONSTANT VOLTAGE/CONSTANT CURRENT CONTROLLER

Our Analog Constant Voltage / Constant Current Controller delivers ultra-stable, high-precision power for all types of machine vision lighting. Whether driving LED bar lights, ring lights, backlights, or coaxial lights, this controller ensures consistent, flicker-free illumination—critical for capturing crystal-clear images and maximizing inspection accuracy.

Designed for flexibility, it supports both analog and digital control, making it easy to integrate with cameras, PLCs, and vision systems. Whether your application requires continuous lighting or high-speed strobing, this controller gives you complete command over brightness and performance. Built for industrial environments, it guarantees stable operation even under power fluctuations and temperature changes. Perfect for industries such as electronics, automotive, pharmaceuticals, and packaging, this controller helps deliver precise, repeatable inspection results — boosting quality and productivity on your line.

Product Features:

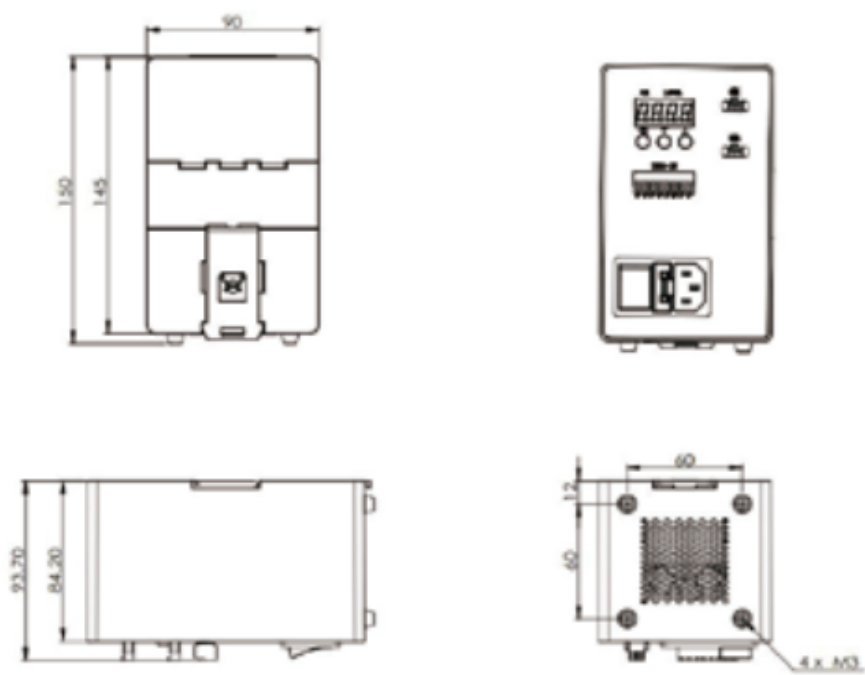
- ◆ Digital display for easy confirmation of settings;
- ◆ Supports external trigger mode;
- ◆ Supports millisecond-level frequency flashing and microsecond-level frequency flashing;
- ◆ Manual brightness adjustment and mode selection, easy operation;
- ◆ 5–24V wide voltage input, compatible with low-level electronic trigger mode;
- ◆ Compact size, easy to install, supports screw mounting or C45 rail mounting.



Product Datasheet of PS-PRM Series

Item	Specification
Input Voltage	AC80–264V 50/60Hz
Output Voltage	24V
Output Current	Refer to Products Table
Operating Modes	4 Modes: 0: Continuous / 1: Flash / 2: Millisecond-level flash / 3: Microsecond-level flash
Trigger Signal Polarity	Supports PNP/NPN trigger signals, high/low level
Trigger Mode	Edge + pulse width, frequency mode supports edge + pulse width, continuous mode supports pulse width
Brightness Adjustment	0–255 levels stepless adjustment
Millisecond-level Flash Time	1–99 (1–99ms) adjustable, unit: ms
Microsecond-level Flash Time	1–99 (10–990 μ s) adjustable, minimum step: 10 μ s
Supported Light Source Type	24V light source, the total power of the light source should not exceed the rated output power of the controller
Control Signal Voltage	DC5–24V
Trigger Delay	<80 μ s

Number of Channels	Refer to Products Table
Cooling Mode	Natural cooling for $\leq 65\text{W}$, forced air cooling for $>120\text{W}$ (with built-in fan)
Operating Temperature & Humidity	Temp: -5°C to 50°C , Humidity: 25%–85% RH (non-condensing)
Storage Temperature & Humidity	Temp: -20°C to 50°C , Humidity: 25%–88% RH (non-condensing)
Weight	Approx. 0.6kg
Dimensions	90×94×150 mm
Certification	ROHS ISO9001



Model	Built-in Power Rating	Output Voltage	Drive Mode	Max Current per Channel	No. of Channels	Light Source Connector Type
PS-PRM25W-24-1	25W	24V	Constant Voltage	0.8A	1	SM-03V
PS-PRM25W-24-2	25W	24V	Constant Voltage	0.8A	2	SM-03V
PS-PRM65W-24-2	65W	24V	Constant Voltage	2A	2	SM-03V
PS-PRM65W-24-4	65W	24V	Constant Voltage	2A	4	SM-03V
PS-PRM120W-24-2	120W	24V	Constant Voltage	2.4A	2	SM-03V
PS-PRM120W-24-4	120W	24V	Constant Voltage	2.4A	4	SM-03V
PS-PRM200W-24-4	200W	24V	Constant Voltage	3A	4	SM-03V
PS-PRMI65W-24-2	65W	24V	Constant Current	2A	2	SM-03V
PS-PRMI65W-24-4	65W	24V	Constant Current	2A	4	SM-03V
PS-PRMI120W-24-2	120W	24V	Constant Current	1A	2	SM-03V
PS-PRMI120W-24-4	120W	24V	Constant Current	1A	4	SM-03V

CONTACT DETAILS

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