



V1.0

LW-10 Surge Protector User Manual

南京润泽流体控制设备有限公司
NANJING RUNZE FLUID CONTROL EQUIPMENT CO.,LTD

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Chapter 1 Product Introduction

1.1 Company Overview

Nanjing Runze Fluid Control Equipment Co., Ltd., established in 2014, is a national high-tech enterprise focusing on R&D and production of fluid accessories for numerous analytical instruments. We engineer, manufacture and market differentiated standard products such as syringe pumps, multiport valves, peristaltic pumps, gastight syringes, plastic fittings, etc. We persevere in providing our customers with best quality and service in the fields of environmental monitoring, biopharmaceuticals, medical equipment, industrial automation and laboratory instruments, etc.

In past years, we have accumulated rich technical and practical experience that bring us honors of ISO9001, National High-tech Enterprise, Jiangsu Province Private Science and Technology Enterprise, 5A Bank Credit Assessment, 44 technical patents and software copyright including 2 invention patents, 27 utility model patents, 13 design patents, 2 software copyrights.

1.2 Product Overview

LW-10 surge protector mainly used to protect devices supplied by DC power, which is suitable for surge protection of precision instrument in more complex environments.

1.3 Product Features

4KV High Surge Protection

Modular design, compact size. Adopt 35 linear guideway, simple installation and easy maintenance

Chapter 2 Electronic, Environmental & Mechanical Requirements

2.1 Working Environment & Parameters

Cooling Method		Natural cooling or forced air cooling
Working Environment	Occasion	1) Protect it from other heating device 2) Protect it from dust, smoke, corrosive liquid or air 3) Protect it from high humidity and strong vibration places 4) Protect it from flammable gas and conductive dust
	Temperature	0°C ~ +40°C
	Humidity	< 80%
	Vibration	5.9m/s ²
Net Weight		105g

Table 2-1 Working Environment & Parameters

2.2 Mechanical Installation Drawing for 35 Linear Guideway (unit: mm)

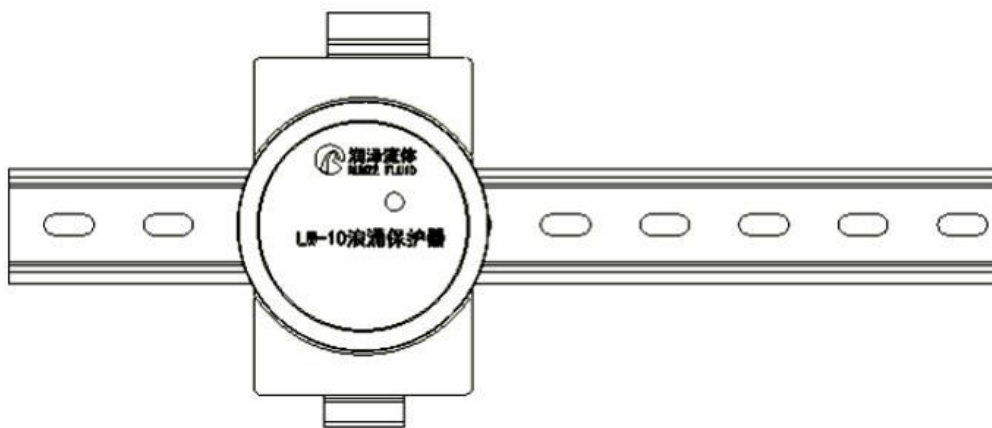


Figure 2-2 Mechanical Installation Drawing

Chapter 3 Driver Interface and Wiring

3.1 Interface Description

3.1.1 Power Supply

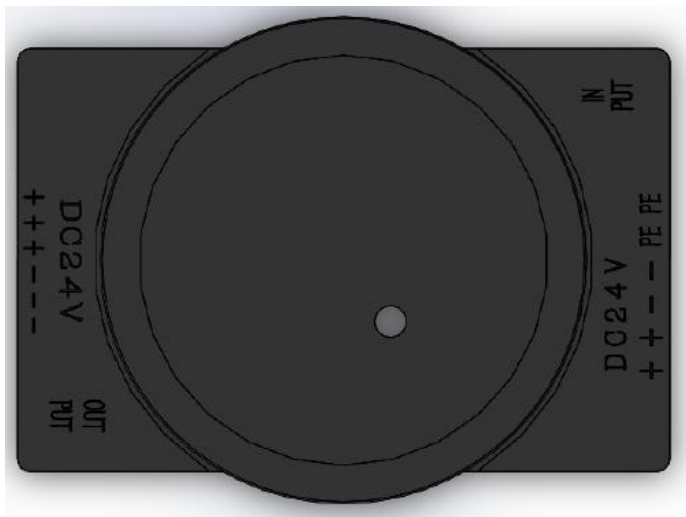
Name		Function
INPUT	DC24V+	DC Input Power Positive
	DC24V+	
	DC24V-	DC Input Power Negative
	DC24V-	
	PE	Protective Earthing
	PE	
OUTPUT	DC24V+	DC Output Power Positive
	DC24V+	
	DC24V+	
	DC24V-	DC Output Power Negative
	DC24V-	
	DC24V-	

Table 3-1 Interface Description for power supply

3.1.2 Status Indicators

The driver has 1 LEDs for indication, where the green LED is used as the power indicator, which is always on when the driver is powered on and always off when the driver is powered off.

3.2 Interface Circuit of Control Signal



Chapter 4 Common Problems

4.1 Common Problems and Solutions in Application

Symptoms	Possible Problems	Solution
No protection	Unreliable grounding or high earth impedance	Reliable earthing to reduce earth resistance
	Poor or loose wiring resulting in failure to power on	Wiring as required and tighten the screws

Table 4-1 Common Problems and Solutions in Application

Chapter 5 Version Description

Version	Description	Release time
V1.0	Initial version	2022.8.30

Chapter 6 Technical Service

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