

铭新MXNCN

MXR-5AO

Magnetic particle tension controller

磁粉张力控制器



产品概述 Product Overview

该产品主要用来代替传统的张力板，通过PWM脉冲信号50-100KHz对应的0-12VDC电压信号转化0-24V强电压驱动负载，来调节24V电压高低，从而实现可调压作用，故产品的寿命和稳定性大大高于传统的张力板。

广泛应用于绕线机，磁粉离合器张力控制、纺织机械、印刷机械、化工机械、食品包装机械、喷绘机械、绞线机、冲版机及需要对直流电机/直流风机进行无极调速的场合。

The product is mainly used to replace the traditional tension board, through the PWM pulse signal 50–100KHz corresponding to the 0–12VDC voltage signal to convert 0–24V strong voltage drive load, to adjust the 24V voltage level, so as to achieve adjustable voltage effect, so the product life and stability is much higher than the traditional tension board.

Widely used in winding machine, magnetic powder clutch tension control, textile machinery, printing machinery, chemical machinery, food packaging machinery, inkjet machinery, wire stranding machine, plate punching machine and the need for DC motor/fan stepless speed regulation occasions.

主要技术参数 Main Technical Parameters

项目 Item	参数 Parameters
负载电流 Load current	5A
负载电压 Load voltage	30VDC
控制电压 Control voltage	12VDC
控制电流 Control current	DC≤30mA
通态压降 On-state voltage drop	≤1.5V
通态漏电流 On-state leakage current	≤2mA
断态时间 Off-state time	≤10mS
介质耐压 Dielectric withstand voltage	2500VAC
绝缘电阻 Insulation resistance	500MΩ/500VDC
环境温度 Ambient temperature	–30℃~+75℃
安置方式 Arrangement method	螺栓固定 Bolt fixed
工作指示 Work instruction	LED
产品重量 Product weight	95g

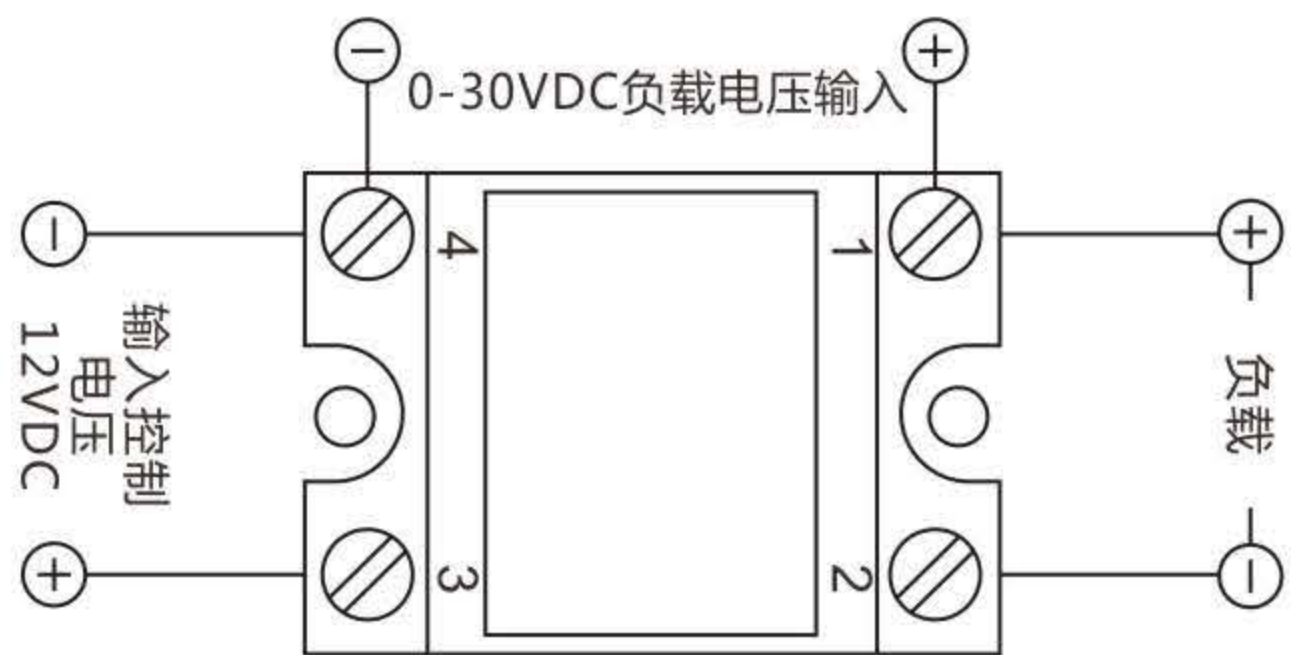
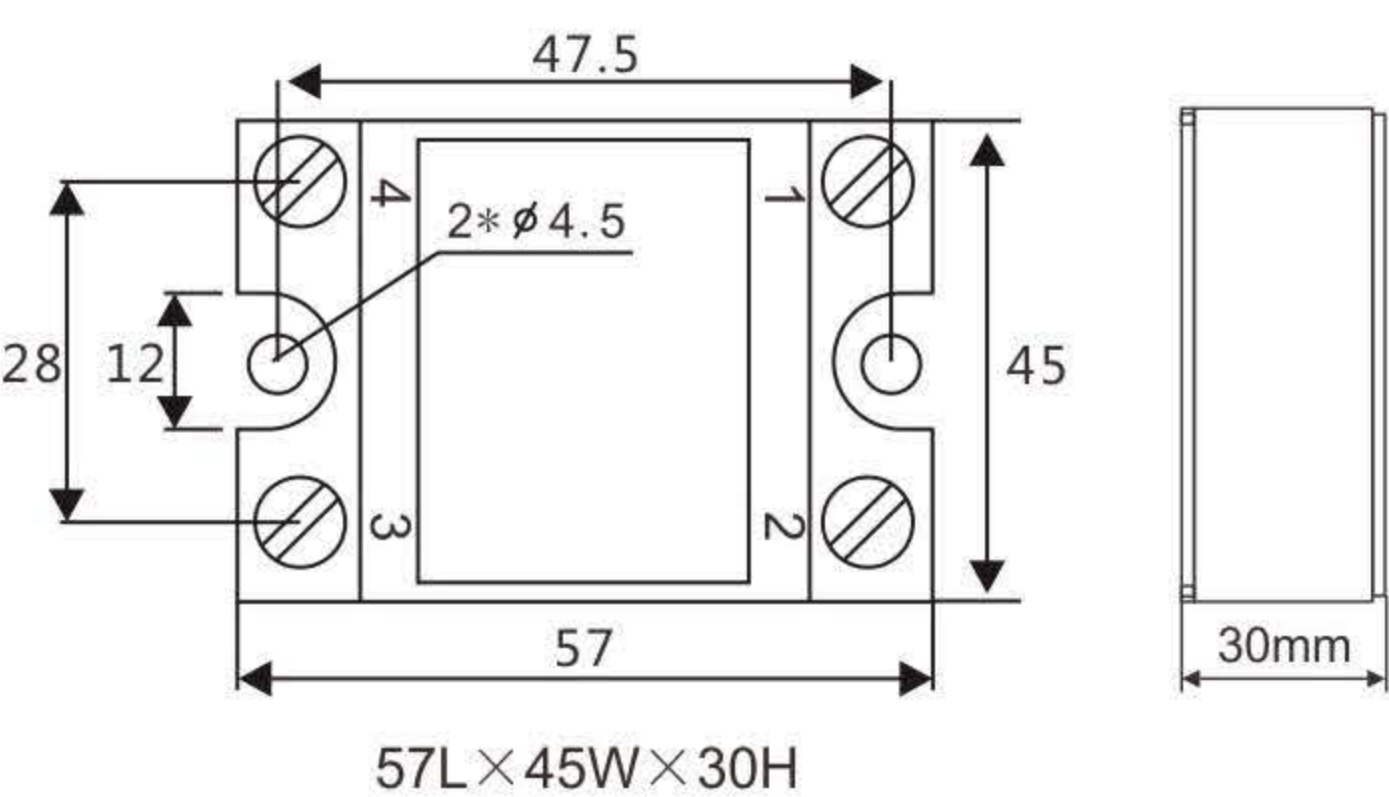
产品特点 Product Characteristics

- 无负载时可调节输出电压；
- 控制信号不接时无输出；
- 控制信号与输出电压成比例输出，线性对称好。
- Adjustable output voltage without load;
- No output when the control signal is not connected;
- The control signal is proportional to the output voltage, and the linear symmetry is good.

注意事项 Matters needing attention

- 本模块底板和散热器接触面应均涂抹一层导热硅脂。
- 5A以上要求加散热器，电流大于10A时，请采用风冷或水冷。
- Apply a layer of thermal grease to the contact surface of the module bottom plate and the heat sink.
- 5A and above require radiator, current greater than 10A, please use air cooling or water cooling.

外形及安装尺寸 / 接线图 Outline and mounting dimensions/wiring diagram (mm)



注：12VDC输入控制端的正极(IN)为控制信号线，接通正极信号线时张力控制器导通而实现电压调节
Note: The positive terminal (IN) of the 12VDC input control terminal is the control signal line. When the positive signal line is connected, the tension controller is switched on to achieve voltage regulation