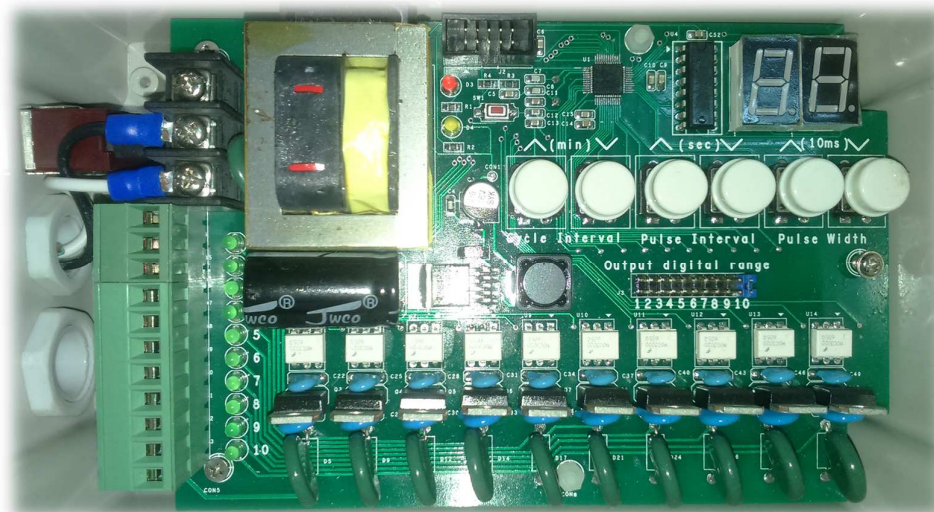


DIAPHRAM VALVE MULTI TIMER

Installation & Operating Instructions



Introduction

Diaphragm Valve Multi Timer is a timing system for pulse-jet type dust collectors or pneumatic conveying systems. It is provided with 10 channels and easy to install in your dust collector system. For installations requiring fewer channels than available on the board, a shorting plug is provided to allow selection of the last used channel. Time-on and time-off settings are selected using push buttons and displayed by 7seg led.

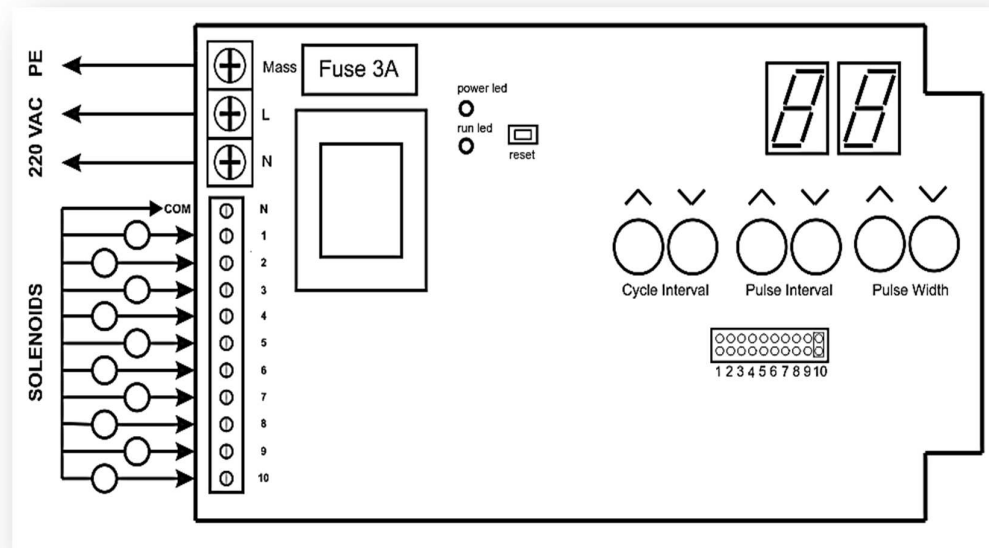
Specifications

- | | |
|-----------------------------------|-------------------|
| • Output Channels: | max 10 channels. |
| • Supply Voltage: | 220 VAC (~) 50Hz |
| • Output Voltage: | 220 VAC / 50Hz |
| • Output Current on each channel: | max 300 mA |
| • Ambient Operation Temperature: | < 65°C |
| • On Time: | 10 ~ 990 ms |
| • Off Time: | 1 ~ 99 s |
| • Interval Time: | 1 ~ 99 min |
| • Fuse: | 3A /250V |
| • Dimensions: | 240 x 120 x 75 mm |

Installation Attention

- Always install, service this device with the power off, close the cap of enclosure box after setting and in operation.
- Mount the device firmly, cable gland (PG) must be tightened, two wires of electro-valve must be jointed to the terminal block carefully.

Wiring Diagram



Annotation

- **Cycle Interval (0 ~ 99 min) min:** Interval Time. This value may be set between 1 min and 99 mins with a resolution of 1 min.
- **Pulse Interval (1 ~ 99 s) sec:** Time off defines the period of time between solenoid activations when no channels are enabled. This value may be set between 1 second and 99 seconds with a resolution of 1 second.
- **Pulse Width (10 ~ 990 ms) 10ms:** Time on defines the solenoid on time. The value may be set between 10 msec and 990 msec with a resolution of 10 msec.
- **Output Digital Range:** Select number of outputs.

System Setup

- **Select number of outputs:** A jumper connector is provided to select the last channel used. Place the jumper on the two pins corresponding to the last channel used in the installation. (*Note : If no jumper is plugged on the jumper connector 10x2, 7 seg display will show error and no solenoid be activated.*)
Example: Using 8 channel. You place the jumper on pin number 8



- **7 segment display:** Show the setting value. Sequence display:

Last channel => Pulse Width => Pulse Interval => Cycle Interval

- **Setting value:** Push the updown button to increase and decrease value. If setting value are made while the system is in operation, the new setting will take effect in the following solenoid cycle and the next cleaning cycle start on channel 1. The system will be in a continuous cleaning cycle when the cycle interval value is zero.



- **Example:**
 - Dust collectors system operate with program below:
 - On Time (*Pulse Width*): 0,5 sec = 500 msec
 - Off Time (*Pulse Interval*): 5 sec
 - Interval Time (*Cycle Interval*): 45 min
 - The last used channel: 7
 - Setting value:
 - *Pulse Width*: 50
 - *Pulse Interval*: 05
 - *Cycle Interval*: 45
 - Output Digital Range: *place on pin 7*