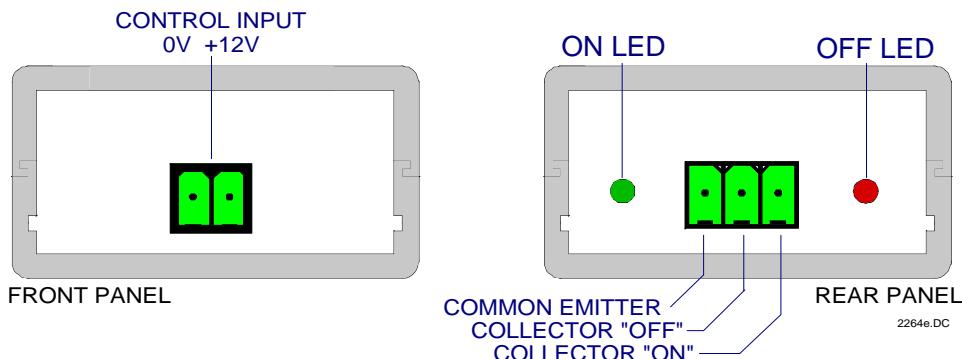


## Instruction Manual

### VPC-10 VOLTAGE-TO-PULSE CONVERTOR

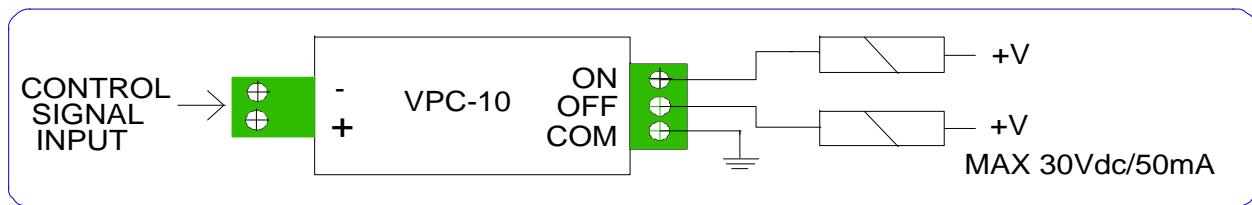


#### Description

The VPC-10 is used to produce an output pulse when the 12-Volt control input is either turned on or off. The “On” pulse and “Off” pulse are carried through separate open collector outputs, one to indicate a transition to the on state and the other to indicate a transition to the off state. A green LED lights for the duration of the “On” pulse. A red LED lights for the duration of the “Off” pulse.

#### Connections

- The 12-Volt control line is wired to the 2-pin green connector with polarity as shown on the case. It is the switching of this voltage that generates the output pulses.
- The two open collector outputs appear on the 3-pin connector. The common “COM” pin is the emitters whereas the pins marked “OFF” and “ON” are each of the two collectors of the “OFF” and “ON” channels respectively. A typical connection is shown below :



The collector-to-emitter voltage is limited to 30 Volts. The maximum current flowing through these open collector outputs is 50mA.

**Pulse Duration :** An adjustment to the duration of each of the two output pulses is possible using the two potentiometers on the PCB. The range of adjustment is from 150 to 400 milliseconds. The factory setting is 250 mSeconds.

#### Technical Specification

Input Control Voltage	12Vdc +/- 20%
Outputs (2)	Open collector transistors (2)
Output ratings	Maximum 30 Volts, 50 milliAmps
Power supply	Self-powered by Input Control Voltage
Case size	60x50x27 MM (2.4x2.0x1.1")
Mass	47 Grs (1.7 Oz)
Operating Temperature Range	0 to 40 °C
Storage Temperature Range	-20 to 60 °C