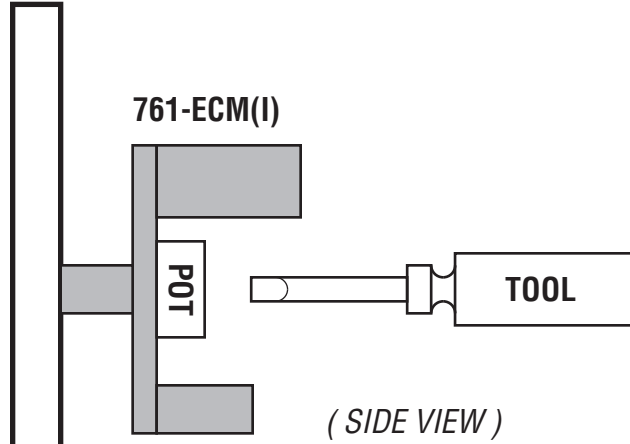
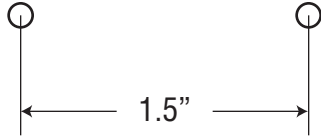


# 761-ECM(I) - UNIT WITH 2 STANDOFFS

0.125" DIA. MOUNTING HOLES  
2 REQUIRED

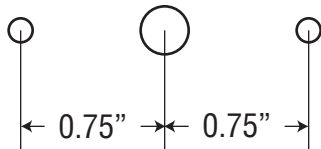


ADJUST SPEED WHILE VIEWING  
UNIT WHEN MOUNTED ON OR  
INSIDE OF A CONTROL PANEL.

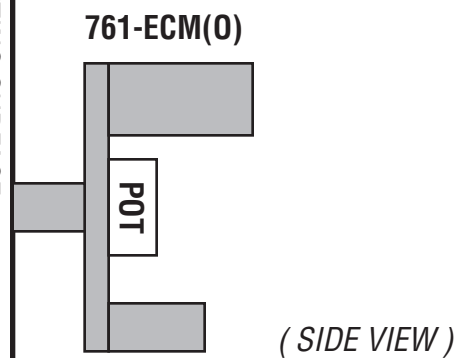
# 761-ECM(O) - UNIT WITH 3 STANDOFFS

0.25" DIA. CENTER ACCESS HOLE  
1 REQUIRED

0.125" DIA. MOUNTING HOLES  
2 REQUIRED



CONTROL PANEL OR MOUNTING SURFACE



ADJUST SPEED WITHOUT VIEWING  
UNIT THRU CENTER HOLE FROM  
OUTSIDE OF A CONTROL PANEL.

# 761-ECM(O) - UNIT WITH 3 STANDOFFS

Figure 2 - 761-ECM Models & Mounting Methods

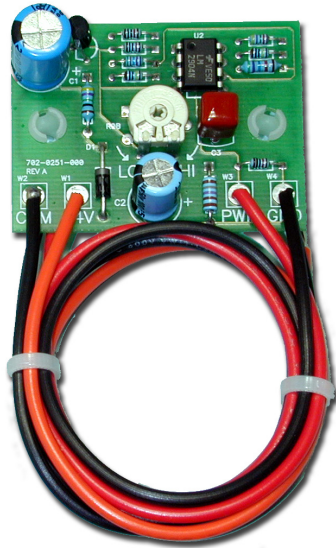
**Hoffman|Controls**

# Hoffman Controls

## Product Data

761-ECM

## Manual Motor Speed Controller



**761-ECM  
Manual ECM Motor Speed Controller**

### Description

The 761-ECM Motor Speed Controller is designed to provide manually adjustable, proportional speed control for all sizes and voltages of ECM motors. The 761-ECM is line voltage independent and requires only a 24 VAC supply, as shown in Figure 1.

The 761-ECM Series Controllers are available in configurations to accommodate mounting with a visible front face adjustment (761-ECM(I)) or with a "hidden" rear face adjustment (761-ECM(O)). This will allow for consistent adjustment direction (CW or CCW) regardless of your installation / application. Refer to Figure 2 for mounting hole sizes and dimensions.

### Application

Variable speed control for ECM motors is accomplished via a Pulse Width Modulated (PWM) output signal. The manual adjustment range of the control pot provides for a 0-100% PWM signal range.

Adjusting the control pot in a clock-wise direction will increase motor speed. Adjusting the control pot in a counter clock-wise direction will slow down and eventually stop the motor as the PWM signal is removed.

The PWM signal operates at a nominal voltage level of 13.5 VDC at 80Hz. It is capable of sourcing up to 5mA drive current. This will allow for the operation of a single ECM motor provided the maximum drive current does not exceed 5mA. Higher current output levels for controlling multiple motors are available in the Hoffman Controls 760-ECM & 790-ECM(VmA) product lines.

### Specifications

Input Voltage	24VAC (+20%/-10%)
Output	0% to 100% PWM @ 80Hz 13.5 VDC, 5mA (max.) Max Wire Length (twisted pair) 100ft
Operating Ambient	32°F to 120°F
Humidity	95%, Non Condensing
Dimensions (L x W x H)	1.50" x 2.50" x 1.25"

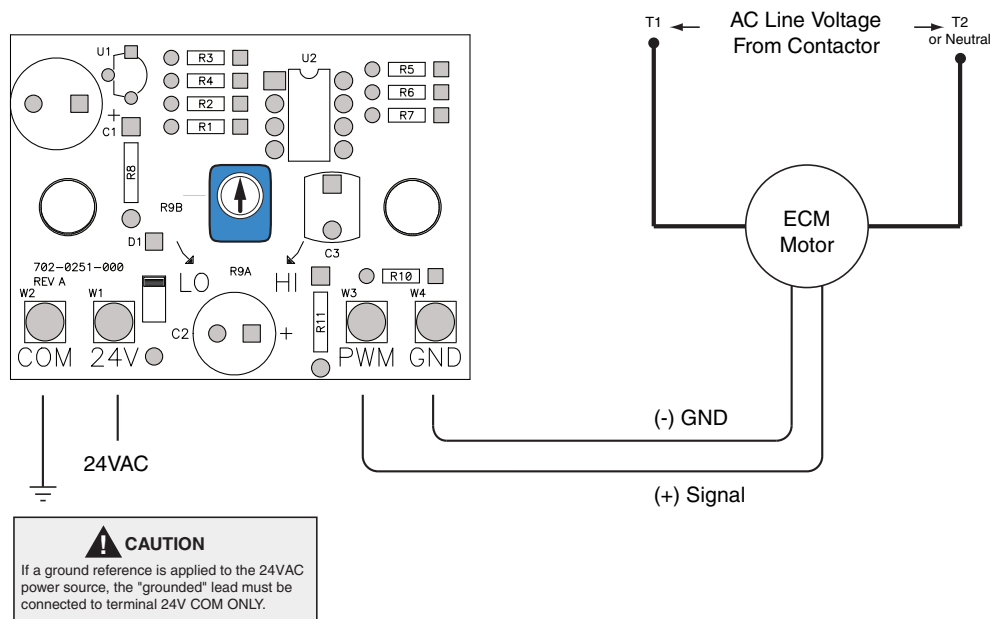


Figure 1 - 761-ECM Wiring Diagram