PG ENGINEERED CONTROL SOLUTIONS

E-381

Description

The E-381 is a robust controller with multiple configuration possibilities. This device can be used in gas or diesel applications and 12 or 24 volt systems. The controller has up to 2 speed sets as well as overspeed protection. These speed sets can be enabled by setting the respective pins “high” (12V/24V). Engine configuration can be done using simple gain and speed set pots. EMI shielded versions of the controller are also available. This controller is conformally coated and mounted in a rugged enclosure.

Features

High impact plastic case

Diesel or gas control

Power supply 12/24VDC

Speed band +/- 0.3% at ambient temp

Temperature stability +/-1.5%

Speed range 3:1

2 Speed Sets

Gain, derivative, and integral adjustments

Speed input (mag pickup, ignition, transformer)

Optional overspeed protection

Optional EMI protection

Mounting attitude: any
(Vertical recommended)

Functionally tested

Specifications

Mechanical

Operating Temp	-30 to 85° C -22 to 185° F
Weight	1lb

Power

Supply Voltage	12V or 24V
Power Consumption	5W
External Fuse Required	7.5A

Speed Sensor

Mag Frequency	up to 10kHz
DIS Frequency	up to 4Hz
Voltage	100V

Governor

Max Current	4A

Speed Set

Threshold	8V

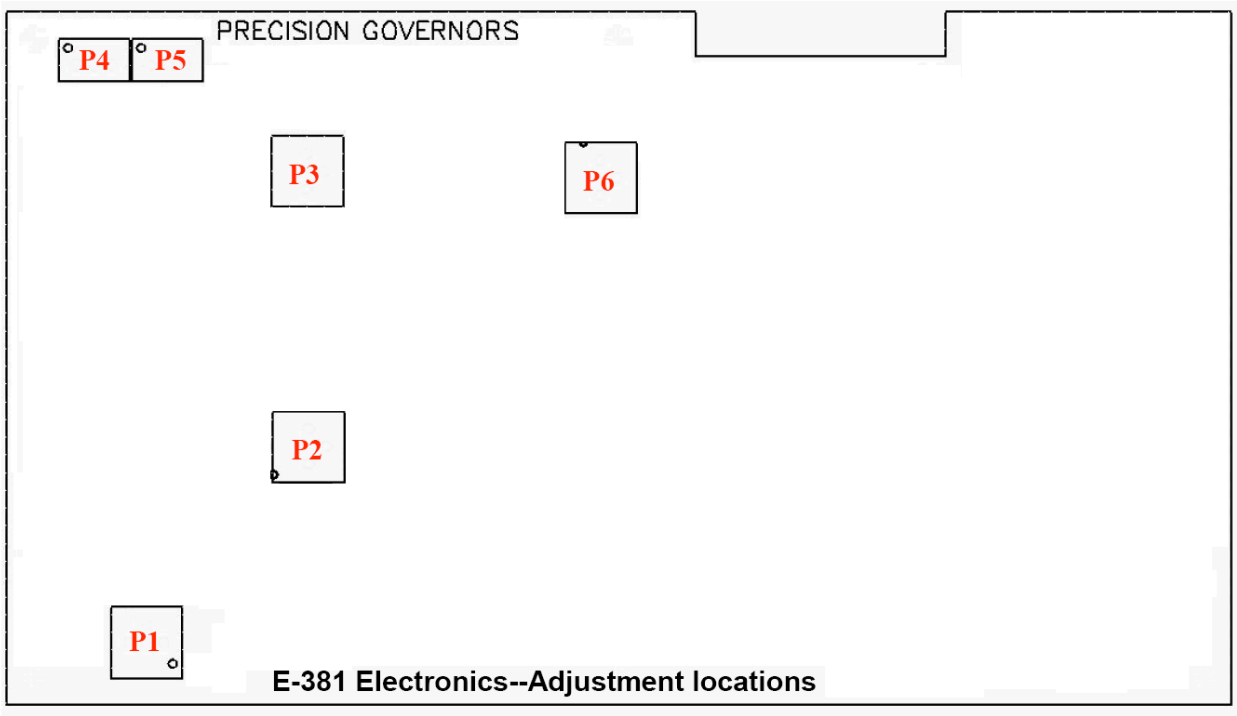
Precision Governors, LLC
2322 Seventh Avenue
Rockford, IL 61104
Ph: 815.229.5300 Fax: 815.229.5342
www.precisiongovernors.com

Wiring

Pin	Description
1	+12/24V Power
2	Ground
3	Speed Sensor +
4	Speed Sensor -
5	Governor (polarity insensitive)
6	Governor (polarity insensitive)
7	Speed set
8	Overspeed / Ignition

E-381 Electronics--Adjustment locations

P1. Aux-speed
P2. Gain
P3. Integral
P4. Speed-set
P5. Overspeed
P6. Derivative



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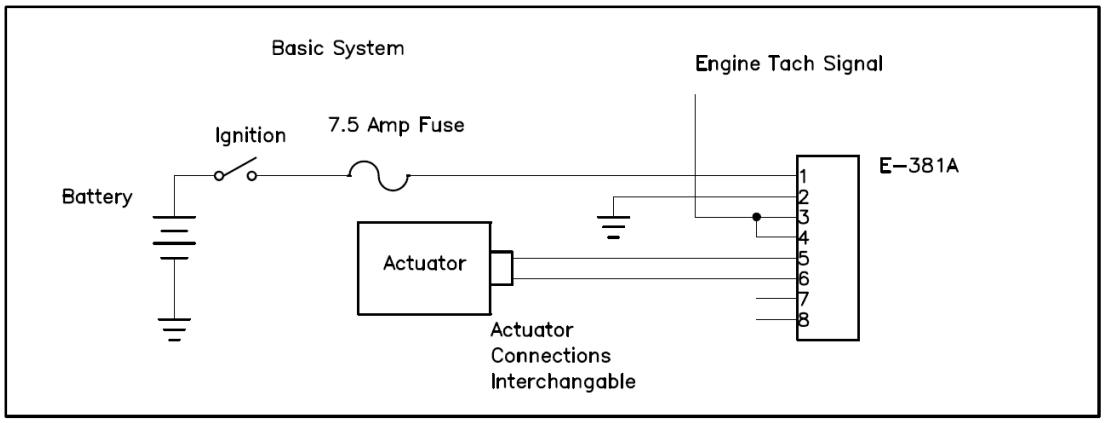

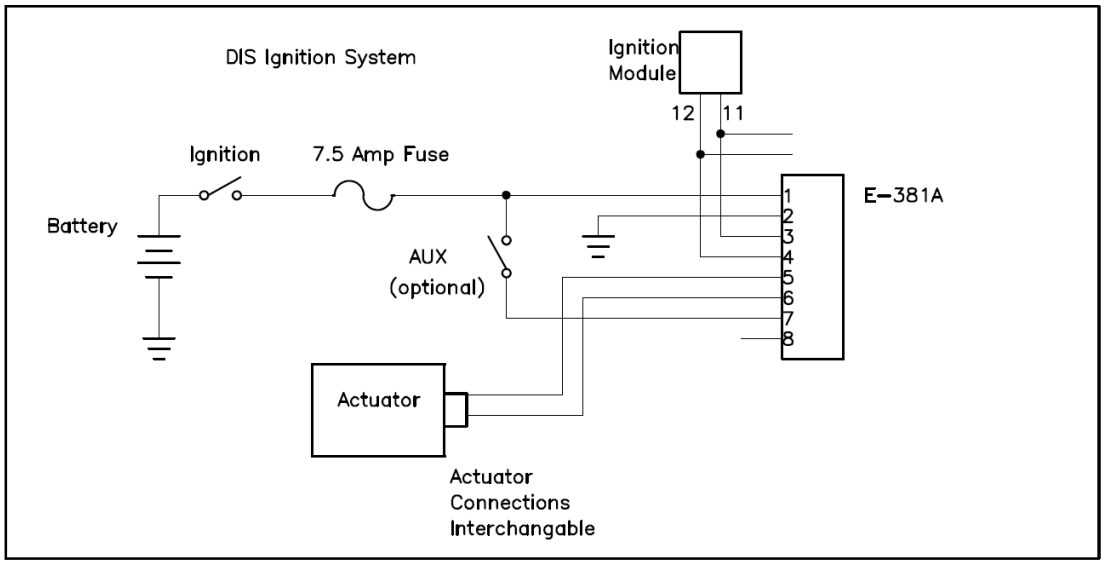

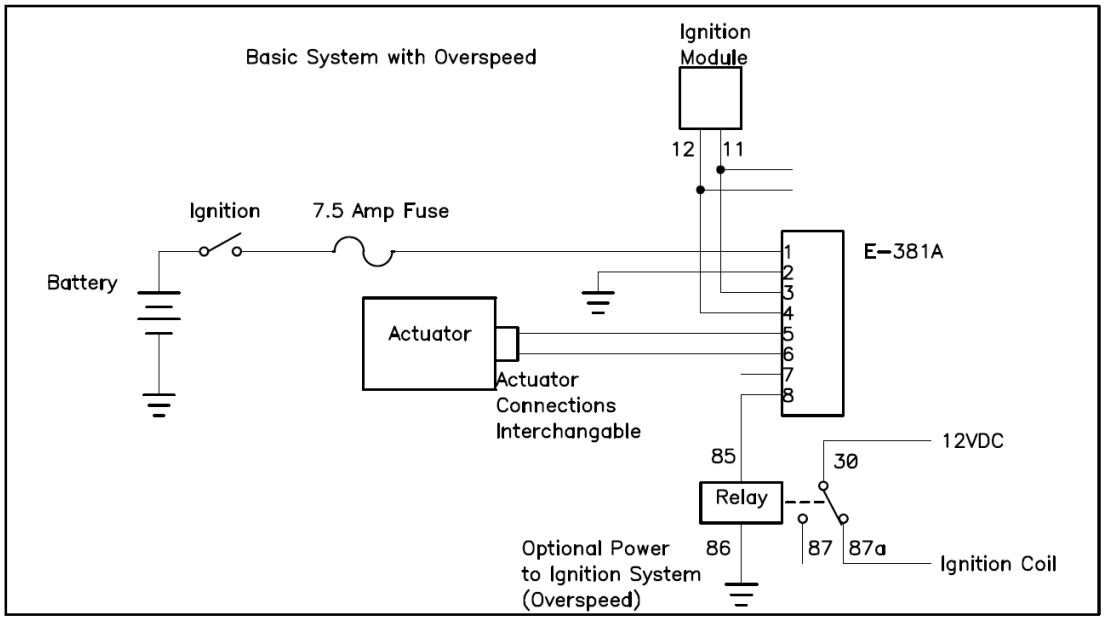

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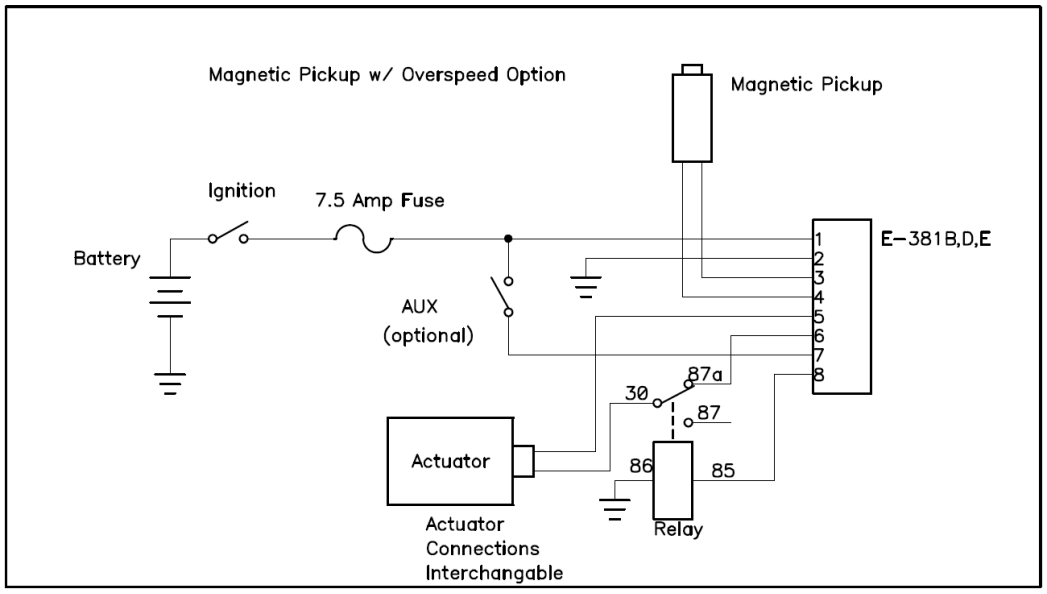
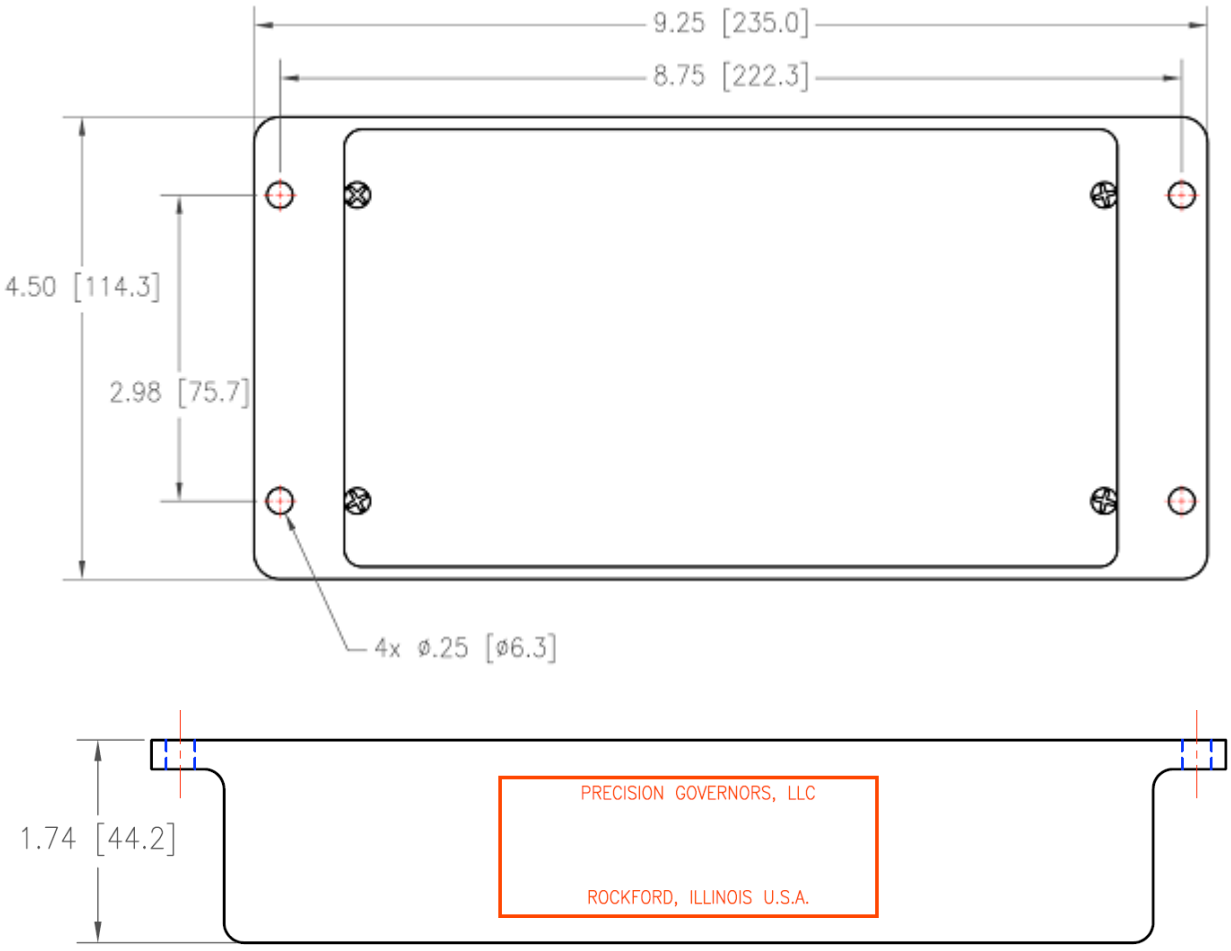


Dimensions



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Reference

Model	Part #	Description
A	9362	Distributor or 4 cylinder DIS input
B	9334	Magnetic Pickup, gas or diesel
C	9337	50/60 Hz transformer input
D	9456	EMI shielded, diesel ONLY, magnetic pickup genset 24 Volts
E	9469	Magnetic pickup, diesel only, Optimized performance for diesel engine control