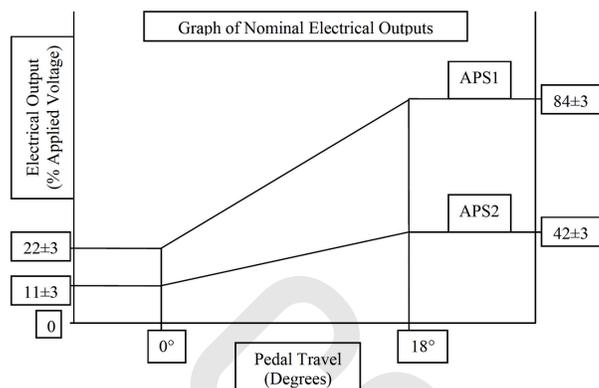


NON-CONTACT HALL EFFECT ROTARY SENSOR

Example of Dual Analog Output Characteristics



Sensor Outputs

Fully Programmable

- Dual Analog
- PWM

Connector

Delphi/Packard 6 Pin Connector, Mates with P/N 15336013 or Equivalent

Connector Pin Configuration (E346-01):

Pin Location	Function
A	APS1 Signal
B	APS1 Ground
C	APS1 Supply (Vref 1)
D	APS2 Supply (Vref 2)
E	APS2 Ground
F	APS2 Signal

Mechanical Ratings

Operating Temperature	- 40°C to +85°C
Storage Temperature	-40°C to +105°C
Endurance	10,000,000 Full Cycles
Dither	80,000,000 Cycles

Electrical Ratings

Supply Voltage (Vref 1&2)	5 Volts ± 0.5 Volts DC
Absolute Maximum	36 Volts (Non-Operational above 7.5 Volts, Normal Operation upon return to Supply Voltage)
Reverse Voltage	-15 Volts
Supply Current 5V	Typ. 8.5mA per Channel
Output Current	8mA per Channel
Correlation of Outputs	Correlation Formula: $APS2 = APS1 \div 2$ Tolerance: ≤ 2% of Vref 1 (Analog) ≤ 2% of Duty Cycle (PWM)

Environmental Validation

Temperature Cycle	- 40°C to +85°C
Vibration	Random and Swept Sine
Humidity	95% RH for 240 hours
Salt Spray	96 Hours
Ingress	IP67
Combined Environmental	288 Hours
EMC Susceptibility	>150V/m
EMC Emissions	ISO13766, EN13309, UN ECE REG 10.05, CISPR 25 and ISO 14982

See Orscheln specification ORS 0315 for details