



# Non-Contact Hall Effect Rotary Sensor

## Sensor Outputs

- Fully Programmable
  - Dual Analog
  - PWM



## Connector:

- Delphi 6 Pin Connector, Mates with P/N 12066317 or Equivalent

## Connector Configuration:

Pin Location	Function (E161-00)	Function (E183-00)	Function (E182-00)
A	APS1 Signal	APS1 Supply (5Volts)	APS2 Ground
B	APS1 Ground	APS1 Ground	APS2 Supply (5Volts)
C	APS1 Supply (5Volts)	APS1 Signal	APS1 Signal
D	APS2 Supply (5Volts)	APS2 Supply (5Volts)	APS2 Signal
E	APS2 Ground	APS2 Ground	APS1 Ground
F	APS2 Signal	APS2 Signal	APS1 Supply (5Volts)

## Electrical ratings:

- Supply Voltage 5 Volts  $\pm$  0.5 Volts DC
- Absolute Maximum 36 Volts (None 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 <3.0% of Vref  
Correlation Formula:  $APS2 = (APS1/2) \pm 2\%$

## 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

## 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 CISPR 25 and ISO 14982

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Example of Dual Analog Output Characteristics:

