RH Series
Zero Velocity - Magnetic Hall Effect Sensors - 3/8 Diameter

Specifications
Power Supply
Power Supply Voltage:
4.5 - 24 Vdc
Power Supply Current:
50 mA maximum

Outputs
Output Voltage:
Essentially square wave fanout to 10 TTL inputs

Supply Tracking: (See Figure 1)
50% ±15% duty cycle
Logic 0: +.6 Vdc maximum
Logic 1: \[ V_O = \frac{V_S \times R_L}{R_L + 2.2k} \]

Output Impedance:
2.2K Ohms ±5%
Output Current:
20 mA sink maximum
Output Current - Short Circuit:
5 mA maximum with 10V power supply

Mechanical
Target Frequency:
0 to 15 kHz
Target Air Gap:
.005 to .015 with a 24 diametral pitch gear
.005 to .025 with a 20 diametral pitch gear
.005 to .050 with a 12 diametral pitch gear
.005 to .065 with an 8 diametral pitch gear

Environmental
Operating Temperature:
-25°C to +125°C (105°C Cable)

Materials
Housing:
300 series stainless steel
Leads:
AWG #24 Teflon, 200°C
Cable:
AWG #26 PVC, 105°C
Rotational alignment of sensing face is not required for optimum output signal

Supply Tracking

Note: Will work with any AI-Tek Tachometer.

Dimensions in inches and (mm)