

# 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

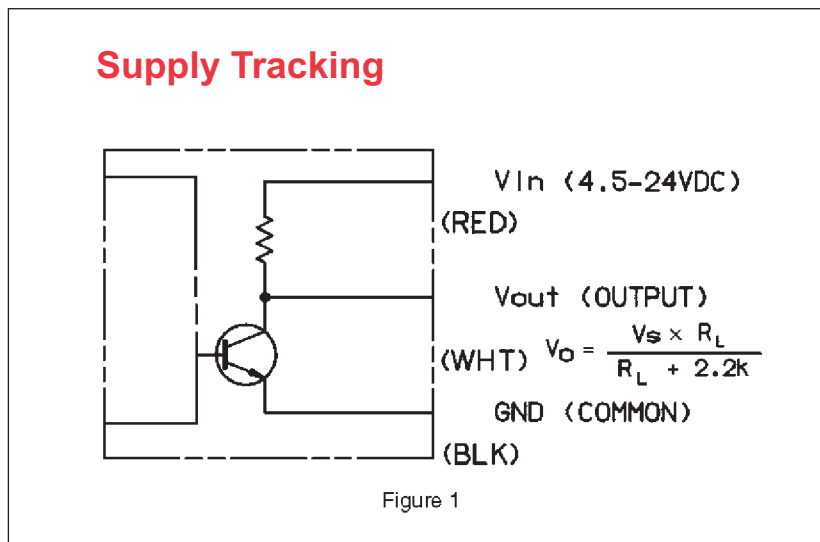
#### Leads:

AWG #24 Teflon, 200°C

#### Cable:

AWG #26 PVC, 105°C

Rotational alignment of sensing face is not required for optimum output signal



**Note:** Will work with any AI-Tek Tachometer.