

# 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% ±30% 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

#### Reverse Battery Voltage:

-30 Vdc

## Mechanical

### Target Frequency:

0 to 15 kHz

### Target Air Gap:

.000 to .015 with a 20 diametral pitch gear

.000 to .040 with a 12 diametral pitch gear

.000 to .055 with a 8 diametral pitch gear

## Environmental

### Operating Temperature:

-25°C to +125°C (105°C Cable)

## Materials

### Housing:

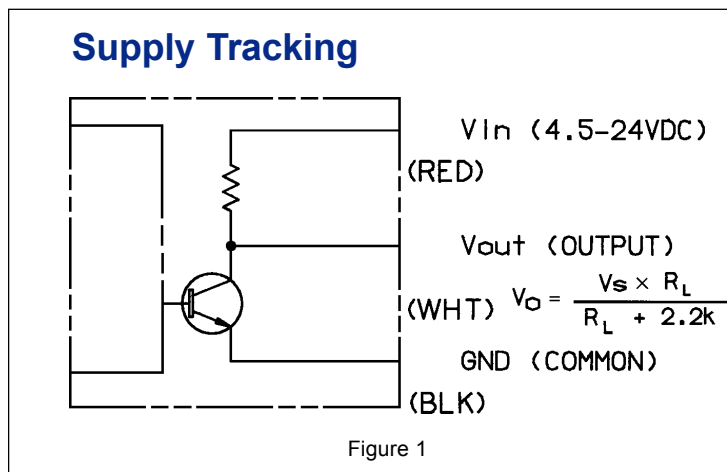
Aluminum / 300 series stainless steel

### Leads:

AWG #24 Teflon, 200°C

### Cable:

AWG #26 PVC, 105°C



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

*Dimensions in inches and (mm).*