

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% \pm 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 \pm 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 .030 with a 24 diametral pitch gear

.005 to .040 with a 20 diametral pitch gear

.005 to .070 with a 12 diametral pitch gear

.005 to .100 with an 8 diametral pitch gear

Environmental

Operating Temperature:

-25°C to + 125°C (105°C Cable)

Materials

Housing:

300 series stainless steel

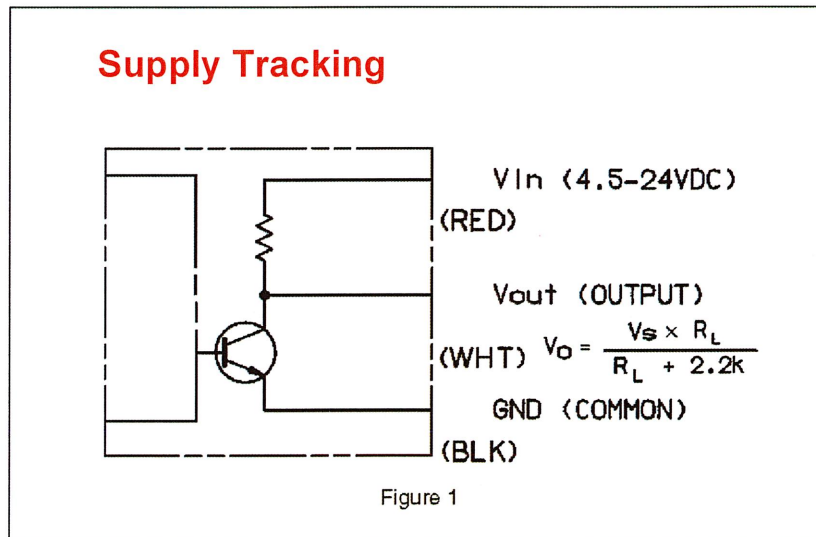
Leads:

AWG #24 Teflon, 200°C

Cable:

AWG #26 PVC, 105°C

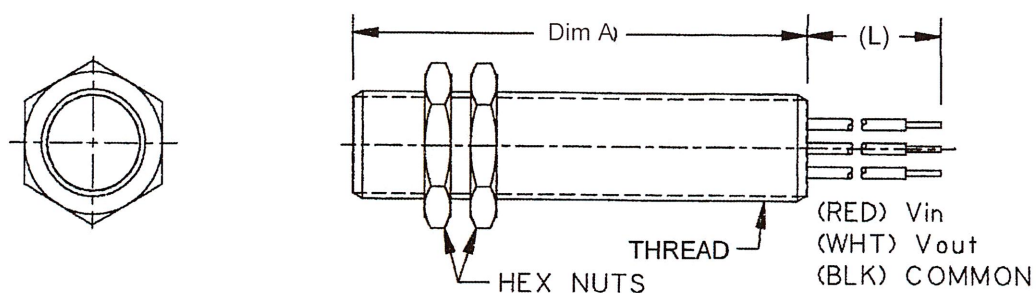
Rotational alignment of sensing face is not required for optimum output signal



Note: Will work with any AI-Tek Tachometer.

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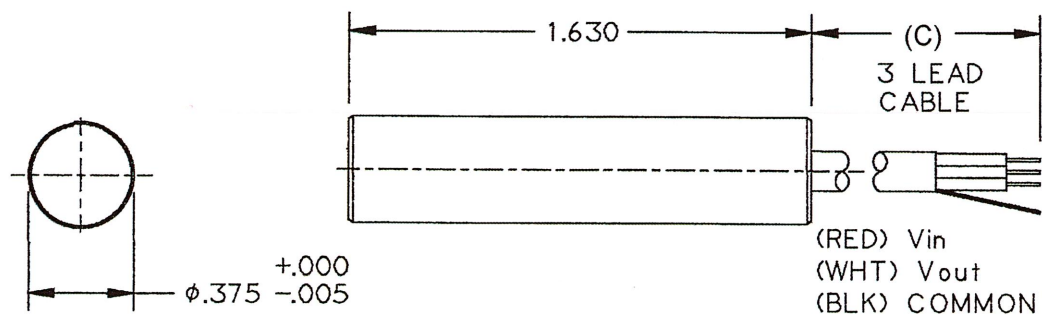
Fully Threaded



Part Num.	Thread	Cable Length (C)	Lead Length (L)	Dimension A
RH1320-001	.375-32 UNEF-2A	—	12 (304)	1.630
RH1320-003	.375-32 UNEF-2A	10 ft. (3.05 m)	—	1.630
RH1320-009	.375-24 UNF-2A	—	12 (304)	1.630
RH1320-010	.375-24 UNF-2A	10 ft. (3.05 m)	—	1.630
RH1320-012	.375-24 UNF-2A	10 ft. (3.05 m)	—	3.000

New Weight: 0.7 oz. max.

Round Body



Part Num.	Cable Length (C)	Lead Length (L)
RH1320-005	—	12 (304)
RH1320-006	10 ft. (3.05 m)	—