# SHIMPO

## Magnetic Pickup Model 3030AN

### **Instruction Manual**

#### General

Model 3030AN pickup provides a sine wave output whenever there is an abrupt change from non-magnetic to magnetic material moving past the sensor pole. The output voltage is directly proportional to the change in magnetic flux intensity over the change in time.

#### Mounting

The unit is designed to mount in a 5/8" – 18 threaded hole and is provided with a jam nut for securing the sensor.

#### Adjustment

The pickup should be adjusted for a typical clearance of .01" between the sensor and gear. This adjustment will provide excellent sensitivity and resolution.

### Temperature Range

-100°F to +225°F (-73°C to +107°C)

#### **Connections**

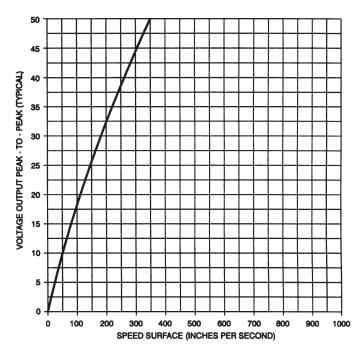
All connections refer to cable and mating connectors which must be purchased separately.

Braid: Sensor cable shield White: Signal output lead Black: Sensor common

**Note:** When ferrous metal is introduced

sensor magnetic field, pin B (Black)

will be positive with respect to pin A (White).



Shows peak-to-peak voltage output vs. surface speed of a 20-pitch, 30 tooth ferromagnetic gear at 0.005 inch clearance. Load = 100,000 ohms.

