Nidec

Operation Manual

Model 3030AN pick-up 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 proviced with a jam nut for securing the sensor.

ADJUSTMENTS

The pick-up should be adjusted for a typical clearance of 0.01" (0.25 mm) between the sensor and gear. This adjustment will provide excellent sensitivity and resolution.

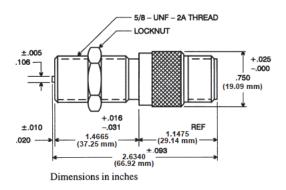
CONNECTIONS

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

Lead	Terminal
Braid	Sensor Cable Shield
White	Signal Output
Black	Sensor Common

Note: When ferrous metal is introduced sensor magnetic field, pin B (Black) will be positive with respect to pin A (White).

DIMENSIONS





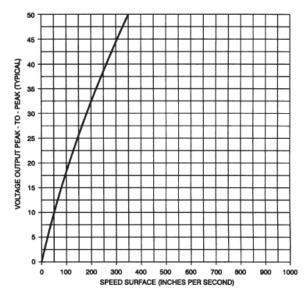
SPECIFICATIONS

Output: Sine wave

Clearance: 0.01" (0.25 mm) between the sensor and gear

Temperature Range: -65 to 225°F (-54 to 107°C)

Resistance: 1200 ohms max. **Inductance:** 450 mH max.



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.

NIDEC-SHIMPO CORPORATION