Eddy-current speed sensor

The sensor is made up of a magnet and a coil.

At high speeds, eddy currents are created in the turbine blades due to the magnetic fi eld variation.
The resulting magnetic fi eld generates a voltage signal in the sensor coil that the remote electronic process to generate digital pulse

Electricfil UPCOMING technologies

Characteristics

- Capable of measuring speeds up to 350,000 rpm
- Temperatures -40°C to +230°C
- Non-contact sensing
- Size: 6 mm diameter
- Airgap up to 2.0 mm
- Interface: 3-wire, digital pulses

Electricfil knowhow

- Compact coil design
- High temperature packaging

Application domains

Engine management

Air circulation