



[Accueil](#) > [Innovations & Solutions](#) > [Nos Technologies](#) >

VR speed/position sensor



VR (variable reluctance) sensors are of the inductive (passive) type, requiring no power supply.

They measure variations in the magnetic flux generated by a target on the shaft, delivering an electrical signal that the electronic control system processes to determine the speed and/or angular position of the rotating shaft. A VR sensor is made up of a wire-wound coil, a pole-piece and a magnet.

Electricfil solution - ready technologies

Characteristics

- Temperatures -40°C to +200°C
- Minimum signal amplitude 30 to 600 mV peak-to-peak
- Phase shift < 3°
- Very high withstand capacity to severe environments
- Airgap up to 2.0 mm
- Size: 14 mm diameter or less on request
- Interface: 2-wire

Electricfil knowhow

- Integration of a standard sensor in a dedicated solution
- Automated production
- Simplification of complete function for significant cost reduction
- Outstanding quality
- Optimization of mounting and adjustment on customer site

Application domains

Transmission

[Clutch actuation control](#)

[Gear-shift control](#)

Engine management

[Air circulation](#)

[Camshaft and crankshaft](#)

-