WHEEL SPEED SENSOR

ITS FUNCTION

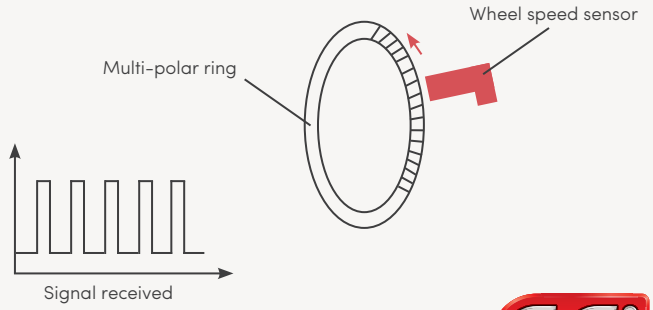
The wheel speed sensor, also known as the ABS (Anti-lock Braking System) sensor, is an **electronic device responsible for measuring the speed of rotation of each wheel on a vehicle in real time**. This information is essential for the anti-lock braking system (ABS) and other safety systems such as ESP (Electronic Stability Program) and traction control (TCS).

GOOD TO KNOW

The wheel speed sensor (ABS) is installed **close to each of the vehicle's wheels**, usually attached to the hub. Its precise position depends on the type of vehicle and the technology used.

- **For passive sensors (inductive):** placed opposite a toothed ring (ABS ring) fixed to the hub or transmission shaft.
- **For active sensors (Hall effect):** positioned opposite a magnetic ring, often integrated directly into the wheel bearing.

ILLUSTRATION



Operation of active technology

TECHNOLOGIES

Two main technologies are used on the market: passive and active. Passive technology is based on the principle of electromagnetic induction, while active technology uses a Hall-effect sensor.

Active technology is the most widespread on the market today, because of its greater precision.

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