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JURATEK®

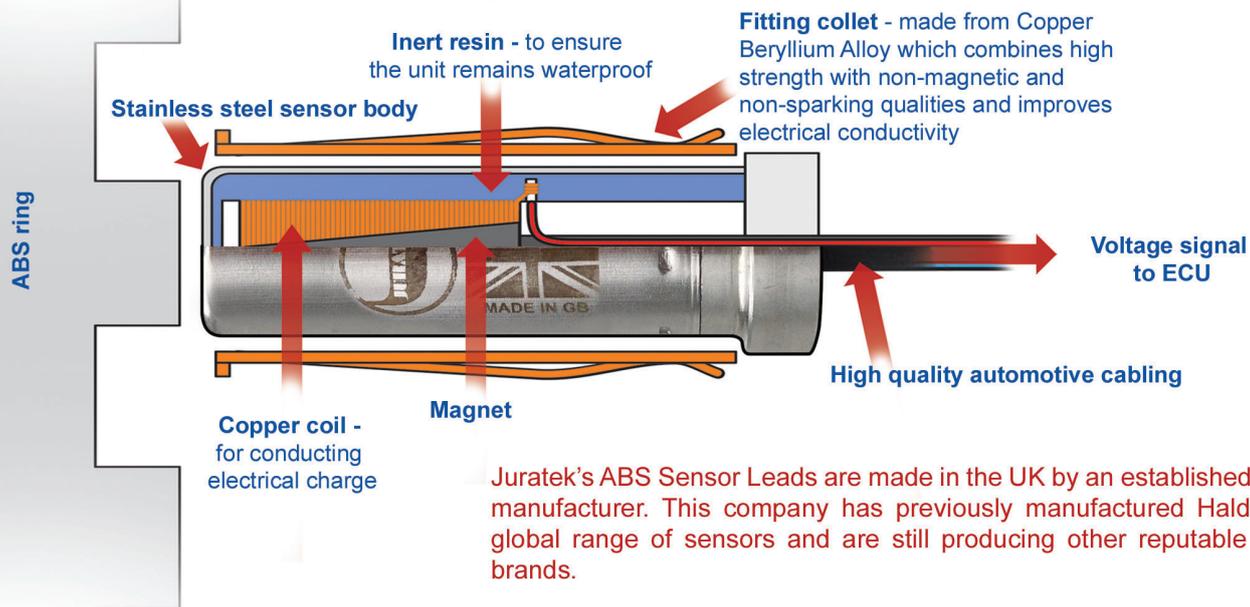
## What is an ABS Sensor?

An ABS sensor is used for determining wheel rotation speed to prevent lock up when braking. The inductive ABS sensor consists of a permanent magnet with a coil around it. The magnetic field strength changes when a magnetism sensitive object passes through the magnetic field.

## How Do ABS Sensors Work?

In most cases the object used to influence the magnetic field is an exciter ring with evenly distributed teeth, mounted on the driveshaft. When the exciter ring is rotating, the teeth pass the sensor and the pattern in which they pass is visible in the ABS sensor signal. Every period of signal is a tooth passing the sensor. The frequency and amplitude of the signal depend on the rotation speed and the amount of teeth on the ring.

The ABS sensor signal is monitored by a special ECU (Electronic Control Unit). When the wheel rotates fast enough for the ABS sensor signal to become larger than a certain threshold, the ECU determines the wheel speed using the rising and falling edges of the signal. When a wheel clearly has a lower speed than the other wheels or decelerates faster than the vehicle could, the ECU lowers the brake pressure for that particular wheel. This will result in a wheel speed increase and prevents skidding. When necessary, the brake pressure is continuously adjusted multiple times per second until the vehicle nearly stops and the signal voltage falls below the threshold.



All our sensors are tested 10 times throughout the manufacturing process. Then 10 random test samples are selected from every batch. These are then subjected to harsh bump and environmental tests to emulate the harsh conditions of being on the road. It is only when all tests are complete, that each batch are released for dispatch.

Our ABS sensors have been cross referenced against the leading OE part numbers in an effort to assist our customers in highlighting the correct alternative parts. These parts have the same electrical characteristics, connectors & cable length, thus enabling our customers to buy with confidence.

[www.juratek.com](http://www.juratek.com)



The names and numbers of third party manufacturers are used to identify the equivalent Juratek product and such use does not imply any connection with such manufacturers.