

Displacement sensor for washing machines

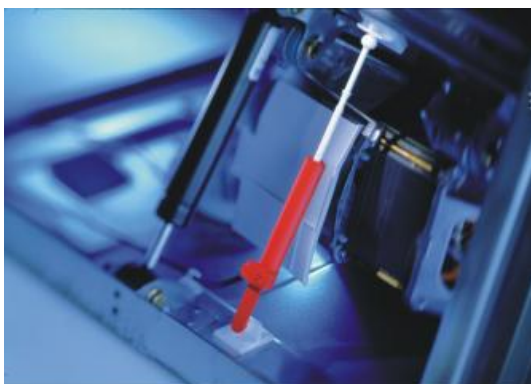
When the washing machine is loaded, the displacement sensor DRA measures how much the outer drum drops. It also measures the drum's deflection during spin-drying. Due to the inductive measurement principle, the sensor provides absolute position measuring for static and dynamic processes. Operation and the washing result are optimized by the load measurement. The displacement sensor provides an output signal proportional to the weight. This permits full utilization of the drum volume and helps to determine the required amount of detergent.

Operational costs are reduced and the environment is protected. The ability to sense an imbalance makes it possible to tailor the speed during spin-drying. This improves how the machine runs and the effectiveness of spin-drying. The useful life of the washing machine is also lengthened. The sensor is mounted parallel to the shock absorber. The ball joints at the ends of the sensor provide the required freedom of motion. The simple mounting and direct control via the washing machine's micro controller result in simple implementation and an excellent price/performance relationship.

Sensor features

- Measuring range: 50 mm (± 25 mm)
- Well-priced, customer-specific version
- Power supply and signal processing by micro-controller (patented)
- For static and dynamic displacement detection
- Simple mounting

Control and signal processing by micro-controller



Picture: Miele

