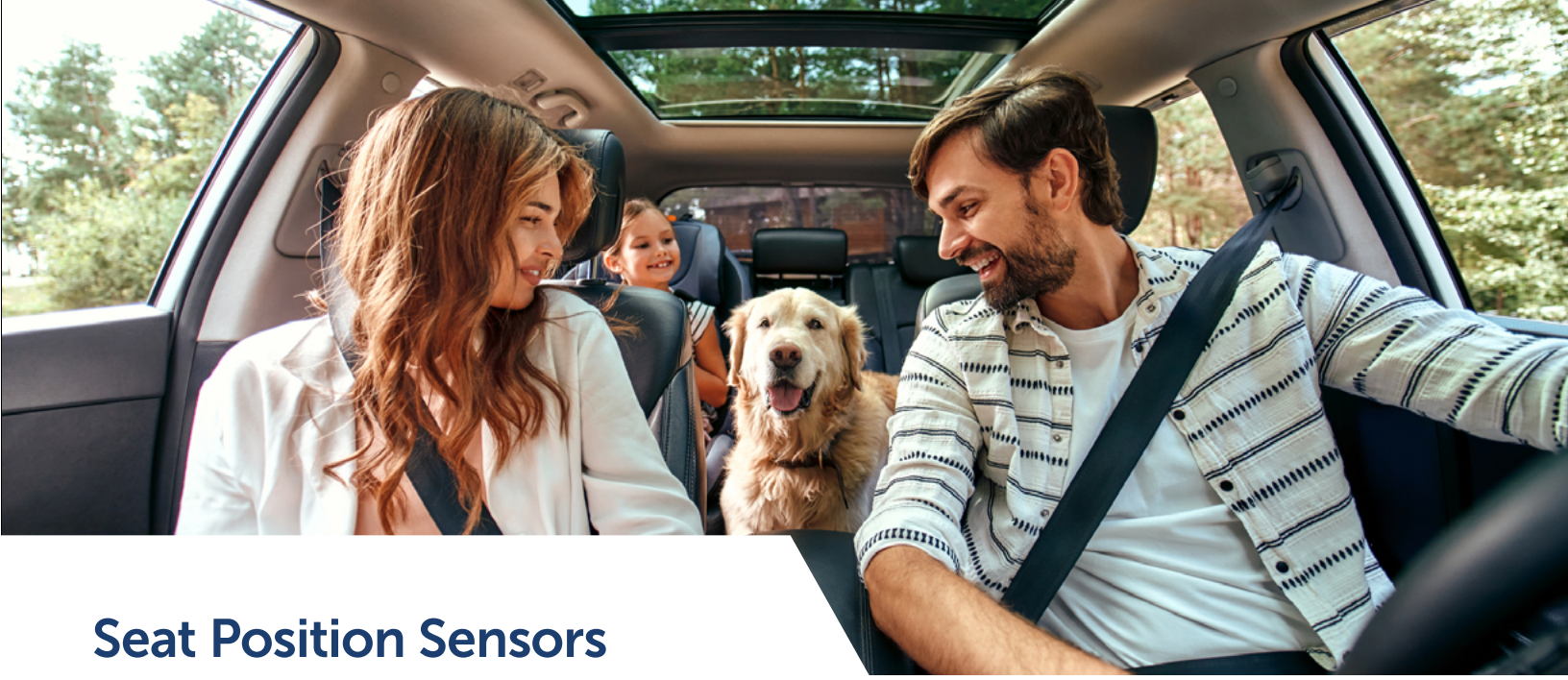
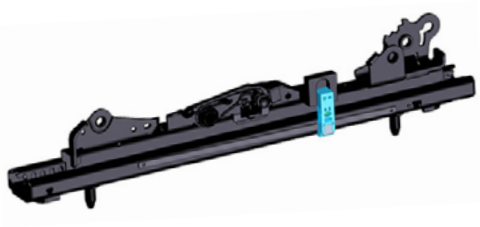


Seat Position Sensors
Automotive Safety

Automotive seating safety is a critical aspect of vehicle design and passenger protection. The primary goal is to ensure that seats not only provide comfort but also enhance occupant safety at all time of operation. We design and support Seat Position Sensors and Seat Track Sensors.



Reduce Design Time and Sources for In-Cabin Technology

CTS can design and manufacture a complete solution for your cabin requirements. Seating design engineers can get their designs to market quickly by utalizing one of CTS standard off-the-shelf sensors or working with our teams to create a solution quickly.

Engineered to Fit Most OEM Vehicle Seats

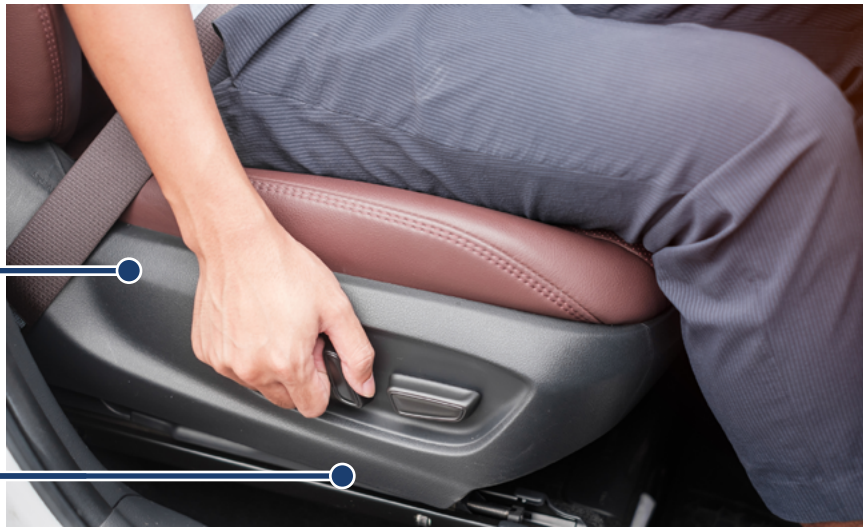
Our off-the-shelf solutions are designed to seamlessly integrate with most seat track manufacturer seating applications. OEMs will find minimal to no design modifications are needed for vehicle integration. However, customization options are available upon request to meet specific requirements.

Longstroke Sensor's Magnetoresistive Technology Achieves Up to 40% Savings

Minimize the number of sensors required on a seating position system with CTS's magnetoressitive sensor solution when compared to hall-effect sensing technology. A typical Hall sensor solution will require multiple Hall-Effect Device (HED) chips along the entire stroke to detect the movement of a magnet. This makes the MR sensor up to 40% more cost-effective since it requires only a single chip to detect the target's position throughout the whole stroke length.

Our sensors can support custom design changes or be completely designed from scratch

Our off-the-shelf solutions are designed to seamlessly integrate with most seat track manufacturer seating applications



Example Technical Specifications:

Seat Track Position Sensor

Parameter	Unit
Supply voltage	4-16VDC
Switch Output	5.0-6.9mA (low), 12-17mA (high)
Operating Temperature	-40°C to +85°C
Thermal	632 Thermal Shock cycles
Humidity	240hrs HHCO (constant), 240hrs HHC (cyclic)
Vibration & shock	24hrs/axis, 1 meter Drop Test
Seal	15 cycles +85°C to 0°C saltwater
Electromechanical Durability	30,000 cycles with temperature cycling = 1X Life; 12.5mm magnet stroke
Electronics Sealing	IP6K8

Years Of Automotive Experiance

CTS Corporation began expanding into the automotive market in the early 1970's, when the U.S. government first issued requirements for controlling automotive emissions.

Today, we are a leading provider of sensing solutions, smart actuators, and pedals, with a history of delivering sensing solutions for over five decades. With over 100 million automotive sensors in the field, we have the engineering expertise and production capabilities to support a wide array of applications.

Contact Information

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