



Chassis Ride Height Sensors

Precise Vehicle Control

Chassis ride height sensors measure the distance between the vehicle's chassis or body and the ground. These are crucial components in vehicles equipped with automatic headlight level systems and adjustable suspension systems. CTS Chassis sensors are built on a standard range of products that are packaged for application by our sensor engineers or are customized to fit applications by request.



Reliability in Rugged Environments

Our ride height sensors are commonly used in off-road vehicles, SUVs, and trucks with adjustable suspension systems. Improving ground clearance and stability over uneven terrain, providing a smoother ride and improved off-road performance.



Selling a Partnership and a Solution

Our experience and expertise in this application enable us to accommodate a variety of mounting angles, difficult packaging, and robust sealing required for under-chassis applications. With a global team of application engineers, we can package one of our generic, tooled-for-sale sensors or develop a custom product that is unique for your application.



Wide Range of Options

We offer a PWM, Analogue, PSI 5 electrical output options as well as a return spring in application where required. We have best-in-class electronic sealing due to no potting is required design (US Patent 9,134,200).

Can survive rugged environments and is long lasting in off road vehicles

Detects and determines chassis height changes and reports data directly to system.



Example Technical Specifications Table:

Parameter	Unit
Supply Voltage	5.0 ± 0.5VDC
Max. Current at 25°C	Analog (0.5-4.5Vdc), PWM (5%-95% duty cycle), contact CTS for custom options
Active Sensing Range	±50° typical, other ranges available
Accuracy	±2%
Mass (sensor with arm and ball stud)	56 grams
PWM Frequency	2,000 Hz (other frequencies available)
Response Time	0.6 ms max., 1.7 ms wake-up max.
Resolution	12-bit
Operating Temperature	-40°C to +105°C
Seal	IP6K8

Years Of Automotive Experience

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 global team of application engineers, we can package one of our generic, tool-for-sale sensors or develop a custom product that is unique for your application.

Contact Information

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