

Rain Sensor

Despite cars that are easier to drive and more reliable, drivers today face more distractions than ever – traffic and construction delays, cell phone calls, in-car navigation systems, to name just a few. With TRW's new Rain Sensor, one such distraction is eliminated. Without diverting the driver's attention, this fully automatic sensor keeps the windshield clear, allowing the driver to focus on the road.

TRW's Rain Sensor makes the wiper system a "set-and-forget" function. This is a fully automatic moisture-activated system that detects how hard rain or snow is falling and determines when to activate the wipers and how fast to run the wiper motor.

Using an advanced optical sensing system, analog signal processing, and a control algorithm, this technology provides drivers with added safety, convenience, and comfort in various weather conditions.



System Operation

An infrared beam is reflected off the outside surface of the windshield to the infrared sensor array. When moisture strikes the windshield, the system experiences an interruption to its infrared beam. Advanced analog and digital signal processing determines the intensity of rain or snow. The sensor communicates to the wiper control module to switch on the wiper motor and controls the wipers automatically according to the moisture intensity detected.

Features

- Vehicle specific requirements can be added without impacting the core technology
- Commonality of components and designs allows product to be introduced quickly
- Adaptable to glass type and variation without calibration
- Advanced software control algorithm

Specifications

- **7803:** eight-pin generic sensor providing maximum flexibility
- **7230:** four-pin low cost digital communication
- **7992:** J1850 sensor
- **7812:** CAN sensor

Proprietary technology and advanced software control make TRW's rain sensor the industry standard for flexibility, function and driver satisfaction.

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