

Application: Windshield Wiper



Windshield wiper sensor element

The Tactilus® wiper planarity sensor system is an **extremely cost effective way to quickly assess whether you have uniform pressure across the wiper blade.** The Tactilus alignment sensor, which is paper thin and highly conformable, is placed directly at the interface between wiper and windshield.

Tactilus® software is so user-friendly that even an inexperienced user will quickly benefit from its powerful features. Within minutes Tactilus reveals precisely where the weighted average center of mass is along the wiper surface. When this is dead center, you know your Wiper characteristics are optimized.



Sensor element positioned under a windshield wiper



Screenshot of Tactilus® software

“There are many factors that contribute towards blade efficacy such as rubber compound, windshield contour and airflow. Dozens, if not hundreds of design iterations often have to be undertaken to carefully balance these variables. The key proposition of Tactilus® is to minimize or eliminate this iterative process. Everything SPL offers can be custom designed for your specific needs and allow for seamless connectivity with your existing data analysis software.” ~ Jeffrey G. Stark, CEO

Tactilus Technology: Tactilus is a resistive ink based linear potentiometer. The sensor records and collects data contiguously across the entire length of the wiper contact surface, and assimilates that data collected in a powerful, but user-friendly, Windows® based toolkit. Each Tactilus® sensor is carefully assembled to exacting tolerances and individually calibrated and serialized. The architectural philosophy of Tactilus® is modular allowing for portability, and easy expansion. Tactilus® employs sophisticated mathematical algorithms that intelligently separate signal from noise, and advanced electronic shielding techniques to maximize environmental immunity to electromagnetic noise, temperature and humidity. Our proprietary sensor design ensures the most robust sensor in the industry - an investment that will sustain thousands of uses.

SENSOR SPECIFICATIONS

Technology	Resistive
Length	Up to 31.5" (80 cm)
Pressure Range	0.73 - 145 PSI (0.05 - 10.2 kg/cm ²)
Grid Size	1 x 800
Sensing Points	Up to 800
Total Sensing Area	0.4" x 31.5" (1 x 80 cm)
Scan Speed	50 hertz
Spatial Resolution	Custom from 0.08 in (2 mm)
Thickness	17 mils (0.43 mm)
Accuracy	± 2%
Repeatability	± 2%

System includes: sensor element, electronic controller, software and cables