Model TrueSlip

- Side Slip Sensor
- ≤ 0.1° Resolution²
- Mounts on wheel
- · CAN signal output
- Works in all light conditions and road conditions¹
- Non contact optical sensor
- IP67 rated

Description

The Michigan Scientific TrueSlip sensor is a highly accurate and versatile Side Slip Sensor. TrueSlip optically measures X and Y velocity and internally calculates side slip. TrueSlip works accurately in a variety of road conditions and all lighting conditions. TrueSlip is a critical tool in vehicle dynamics testing, tire testing, and ADAS testing.

The TrueSlip sensor is mounted on the wheel and can be installed on a large variety of vehicles. It is designed to work with Michigan Scientific Wheel Force Transducers. TrueSlip conveniently outputs signals via CAN. TrueSlip outputs include calculated slip angle, filtered longitudinal velocity, filtered lateral velocity, and raw longitudinal velocity.

Specifications

| Speed Range | 1 to 200 mi/hr (1.6 to 320 km/hr) |
|--------------------------------------|-----------------------------------|
| Angle Range | ± 45° |
| Slip Angle Resolution | ≤ 0.1º @ >20 mi/hr (32 km/hr) |
| Measured Angle Accuracy ² | ≤ 0.2º @ >20 mi/hr (32 km/hr) |
| Measurement frequency | ≤ 40 Hz |
| Working Distance | 10.0 in ± 1.0 in (254 mm ± 25 mm) |
| Signal Output | CAN 2.0 |
| Input power voltage range | 8 Vdc to 18 Vdc |
| Environmental Rating | IP67 |

¹TrueSlip will operate well on dry roads, wet roads, and dry icy roads, but not with standing water or snow. ²Preliminary Specifications

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Specifications

| Via CAN 2.0 | Side Slip Angle* |
|--|----------------------|
| | Filtered X velocity* |
| | Filtered Y velocity* |
| | Raw X Velocity |
| * These outputs have fixed ~44 millisecond delay. Raw output has ~27 millisecond delay | |

Application Photos





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