

# Side Slip Sensor

## Model TrueSlip

- Side Slip Sensor
- $\leq 0.1^\circ$  Resolution <sup>2</sup>
- Mounts on wheel or vehicle body
- CAN signal output
- Works in variety of light and road conditions <sup>1</sup>
- 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 can be installed on the vehicle body, on a wheel, or in conjunction with Michigan Scientific Wheel Force Transducers.

## Specifications

Speed Range	1 mi/hr to 200 mi/hr (1.6 km/hr to 320 km/hr)
Angle Range	$\pm 45^\circ$
Slip Angle Resolution <sup>2</sup>	$\leq 0.1^\circ$ @ >20 mi/hr (32 km/hr)
Measured Angle Accuracy <sup>2</sup>	$\leq 0.2^\circ$ @ >20 mi/hr (32 km/hr)
Measurement Frequency	$\leq 40$ Hz
Working Distance	8.0 in $\pm$ 2.0 in (200 mm $\pm$ 50 mm)
Signal Output	CAN 2.0
Signal Delay	$\sim 44$ ms
Input Power Voltage Range	8 VDC to 18 VDC
Environmental Rating	IP67

<sup>1</sup> TrueSlip will operate well on dry roads, wet roads, and dry icy roads, but not with standing water or snow.

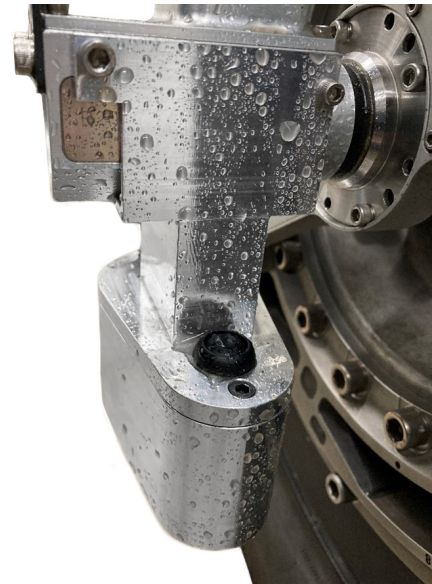
<sup>2</sup> Preliminary Specifications.

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## Specifications

Via CAN 2.0	Side Slip Angle*
	Filtered X velocity*
	Filtered Y velocity*
* The output has fixed ~44 millisecond delay.	

## Application Photos



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