

SENSING SOLUTIONS

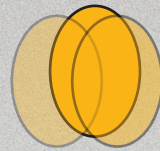


John Deere Electronic Solutions offers a range of custom-designed, specialty sensors that can survive the rigors of virtually any environment. State-of-the-art technology ensures our electronic sensors achieve an unprecedented level of accuracy.

When out of the box solutions don't stand up to the rugged environments or applications needed.

We can create a custom sensing solution that will.

Our solutions have a rugged electronic circuit design, signal processing, test, modeling and simulation, embedded software, and mechanical packaging.



MEMS-based acceleration and/or vibration sensor



MEMS-based IMU for tilt measurement, cab leveling, and terrain measurement

Sensor Types



Inductive



Capacitive



Inertial



Optical



RF



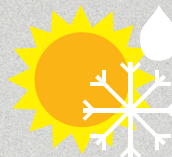
Magnetic



Ground speed radar for true ground speed



Supports 12V and 24V systems



Designed and tested to extreme environments



Moisture sensors implementing capacitive technology

Sensing Solutions Specifications

IMU

Power Supply

Broad range of systems	9 VDC to 32 VDC
	100 mA supply current

Startup Timing

	100 ms (typical)
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Environment

Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +85°C

Size

Dimensions	113.3 mm x 65.8 mm x 42.1 mm
Weight	150 g

Mating Connector

	Tyco Ampseal 776494-1
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Communications

	J1939 at 250k baud or 500k baud
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