

UNIRATE™

SEED SENSOR

Flexible sensor with high counting accuracy across multiple seed types with low susceptibility to light.

The UniRate™ Seed Sensor works with all seed types regardless of seed size and shape. This optical seed sensor accurately counts seeds while planting to ensure that the correct rate is being applied.

The UniRate™ 3 LED Seed Sensor is the sensor of choice for large seed types and seeding rates of 2 to 122 seeds per second with up to 98% depending upon the application of the sensor. Using optical technology the seed sensors work under the principal of photo detection. Light emitting diodes (LEDs) create a thin field of light while photodiodes detect the emitted light. Any seed that disrupts the sensing zone's light source is detected and the corresponding seed pulse is communicated to the monitor.

The UniRate Seed Sensor is a compact sensor allowing fitment to many planters where space is at a premium and larger sensors with large amounts of LED's cannot be used. Its design allows the customization of the sensor mounting brackets by the machine's OEM, thereby utilizing a standard sensor product which makes the UniRate Seed Sensor an extremely cost effective and flexible solution.

Features and Benefits:

- Accurately monitors seeding rates between 2 – 122 seeds/sec across multiple seed types and sizes
- Low susceptibility to sunlight
- Cost effective design
- Compact design allowing easy customization of mounting brackets to fit many different planter types
- Uses a 3-Pin Weather Pak connector for direct connection to existing planter harnessing
- Compatible with existing DICKEY-john PM series planter monitors, IntelliAg® AI series controllers and the IntelliAg® MVT
- Compatible with most OEM planter monitors in use with older DICKEY-john seed sensors



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Specifications

Sensor Dimensions

- Sensor Heads -
0.90" (22.9mm) long x 0.75" (19.0mm) wide x .50" (12.7mm) deep

Electrical

- Operating Voltage -
7.5 VDC minimum to 8.75 VDC maximum
- Operating Current - 50 mA

Connector - 3 Pin Weather Pak

- Pin A - Green Wire - Signal
- Pin B - Black Wire - Ground
- Pin C - Red Wire - Supply Voltage

Environmental

- Conforms to DICKEY-john Environmental Standard for voltage, vibration, thermal shock, physical shock, jet spray, humidity, temperature, chemical, salt spray, emissions, radiated immunity, solar radiation, electric static discharge, jump start, altitude.

CE marked and conformance