

UNIRATE

Seed Sensor

Cost effective sensor with high counting accuracy across a variety of seed types.

The UniRate Seed Sensor works in a number of applications with a variety of seed types to help provide accurate seed counting to ensure the correct rate is being applied.

Eliminate Seed Sensing Dead Zones

Using Optical technology, the UniRate Seed Sensor performs well with seeding rates ranging from 2-122 seeds per second with up to 100% accuracy. The sensor utilizes photo detection, light emitting diodes (LEDs) to create a thin field of light while the 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 by OEM's to fit many different applications. This makes the UniRate Seed Sensor a flexible and cost effective solution for a variety of seeders and planters.

Features and Benefits

- Accurately monitors seeding rates between 2 — 122 seeds/sec across multiple seed types and sizes
- Cost effective design
- Compact design allowing easy customization of mounting brackets to fit many different planter types
- Uses a 3-Pin weather-pack 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

Backed by the power of DICKEY-john:

When you buy a DICKEY-john UniRate you get all the dependability and value you expect from DICKEY-john products. Like all DICKEY-john products, the UniRate is designed, manufactured, and supported in the USA.



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