

# G224 Multi-Sonic Grade Sensor for Ground and String Line Sensing

Mini-Line®

The G224 Multi-Sonic Grade Sensor is a versatile, high precision sensor that is designed for use in both ground and string line sensing mode. It is equipped with four ultrasonic sensors operating at an optimized frequency for high precision. The integration of four ultrasonic sensors gives the Multi-Sonic excellent abilities for string line sensing due to the large sensing span, and enable high precision ground sensing by the use of advanced averaging technology. You can easily switch between ground and string line mode with a simple push on the Mode button.

The sensor is equipped with LED panels on two sides. The active panel facing the operator gives a visual indication of how the current mat thickness is following the set reference. When in string line sensing mode an LED indicator also shows if the sensor is working within or is about to exceed its operating range. The G224 Multi-Sonic features a reference bail for optimum temperature compensation. The reference bail can easily be removed when the sensor is not in use.

The G224 Multi-Sonic can be used with all controllers in the Mini-Line® series. The standard and additional versions can be used both as a single sensor option or as a part of an averaging system.

The replacement versions are extra sensors for the averaging system that can replace either of the other four sensors in case of malfunction, or as additional sensors on an averaging beam with six sensors.



G224 Multi-Sonic

G224 Multi-Sonic Specifications	
Part Number	S-50651 (standard sensor, adr. 8, white) S-50652 (additional for averaging, adr. 9, red) S-50653 (additional for averaging, adr. 10, yellow) S-50654 (additional for averaging, adr. 11, blue) S-50655 (replacement for averaging, adr. 4 green) S-50656 (replacement for averaging, 12 grey)
Application	Grade Control Non contact ground or string line sensing
Power Supply	12/24 Volt System (10-30 VDC)
Power Consumption	Typical at 24 VDC 120 mA Max 200 mA
Dimensions (LxWxH)	257x110x104mm / 10.1x4.3x4.1in
Weight	1400g / 3.1lbs
House	Aluminium
Storage Temperature	-40°C to 85°C / -40°F to 185°F
Operating Temperature	-10°C to 70°C / 14°F to 158°F
Sensor Type	4x125kHz Ultrasonic Transducer
Transducer Beam Width (-3dB full angle):	12° +/- 2°
Temperature Compensation	165mm / 6.5in Detachable Bail
Resolution	1mm / 0.1in
Accuracy - Dynamic	+/- 1mm / 0.1in
Sensor Range	250-900mm / 9.8-35.4in Ground Mode 270-650mm / 10.6-25.6in String Mode Up to 25cm / 9.8in Sensing width in String-Line Mode
Communication Bus	Standard: RS485 OEM option: CAN Analog Voltage Output
Connector	Cannon Bayonet Plug, male 6 pin A: Vbat D: NC B: Gnd E: Com A RS485 C: NC F: Com B RS485

