

G221 Sonic Grade Sensor for Ground Sensing

Mini-Line®

The G221 Sonic Grade Sensor is a non-contact grade sensor optimized to work in the harsh conditions of the construction industry.

The sensor operates at an optimized frequency for very precise measurements, and it features a highly resilient encapsulated transducer. The sensor is equipped with an LED panel that gives the operator a visual indication of how the current mat thickness is following the set reference. The G221 features a reference bail for optimum temperature and wind compensation. The bail is made of spring steel and is designed to detach from the sensor body if struck by an obstacle to prevent damaging bail or sensor.

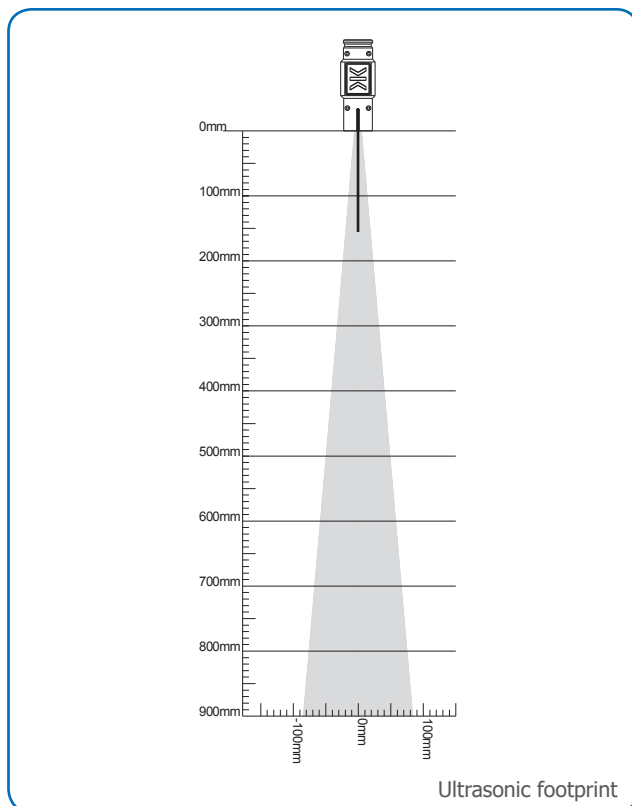
The G221 can be used with all controllers in the Mini-Line® series. The standard and additional versions can be used both as a single sensor or as a part of an averaging system.

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.



G221 Sonic Sensor

G221 Sonic Grade Sensor Specifications	
Part Number	S-50620 (standard, adr. 8, white) S-50621 (additional for averaging, adr. 9, red) S-50622 (additional for averaging, adr. 10, yellow) S-50623 (additional for averaging, adr. 11, blue) S-50624 (replacement for averaging, adr. 4, green) S-50625 (replacement for averaging, adr. 12, grey)
Application	Grade Control Non contact Ground Sensing
Power Supply	12/24 Volt System (10-30 VDC)
Power consumption	Typical at 24 VDC 60 mA Max 200 mA
Dimensions (LxWxH)	130x53x67mm / 5.1x2.1x2.6in
Weight	350g / 0.8lbs
House	Aluminum
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	1x 125kHz Ultrasonic Transducer
Transducer Beam width (-3dB full angle)	10° +/- 2°
Temperature Compensation	155mm / 6.1in Detachable Bail
Resolution	1mm / 0.04in
Accuracy - Dynamic	+/- 1mm / 0.1in
Sensor Range	220-900mm / 8.7-35.4in
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



Ultrasonic footprint