

VAD224 Sonic Grade Sensor for Vögele Asphalt Pavers

The VAD224 Sonic grade sensor is designed to work on Vögele pavers with a Vögele leveling system.

The VAD224 offers versatility, high precision and comes with two output signals. The analogue output signal is for using the sensor in ground or stringline sensing mode, when used in a single sensor configuration. The digital output signal is for using the sensor in a multi-sensor configuration on an averaging beam.

It is equipped with four ultrasonic sensors operating at an optimized frequency for high precision.

The VAD224 Sonic features a reference bail for optimum temperature compensation. The reference bail can easily be removed, when the sensor is not in use.

The sensor is equipped with an LED panel that easily displays whether the sensor is working or in fault condition.

The VAD224 Sonic comes with two possible options for mounting. One for standard mounting and one for mounting with a Snap Connector.

VAD224 Sonic Specifications	
Part Number	SQ-50839 SQ-50840
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	1.4kg / 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	Analog (used alone) 250-800mm / 9.8-31.5in Ground Mode 270-650mm / 10.6-25.6in String Mode CAN (used on Big ski) 250-1000mm / 9.8-39in Ground Mode
Output	Analog Voltage Output + CAN
Connector 1 (Analog)	PT02E168P (8 pin) A: NC E: Uout B: Uin F: Vbat C: Mode input G: Uout D: Output H: GND
Connector 2 (CAN)	Cannon Bayonet Plug, male 7 pin A: Vbat E: Config 2 B: CAN hi F: Config 1 C: GND G: NC D: CAN low
Replaces Vögele p/n	2197266



VAD224 Sonic for standard mounting
SQ-50839



VAD224 Sonic for mounting
with Snap Connector
SQ-50840