SAVeS Smart Vibration Sensor

Modern vibration monitoring for gas compressors & other critical equipment

- Incorporates a sophisticated MEMS-IMU-based vibration sensor for multi-axis application.
- Easily installed, drop-in replacement for legacy mechanical vibration devices.
- Quickly configured in the field with Altronic **OVERWATCH** app.
- E-ink display to support setup and diagnostics—even with external power removed.
- Cost-effective and scalable.
- Certified for Class I, Division 2, Group C and D hazardous areas.*

*Pending

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www.altronic-llc.com | sales@altronic-llc.com

Consistent with its tradition of high value innovation, the development team at Altronic has designed and delivered the **SAVeS Smart Vibration Sensor**.

The primary design driver for the SAVeS is to introduce twenty-first century vibration sensing technology and protection for operation on gas compressor packages and other critical industrial equipment, and to do so on a cost-effective, scalable basis. While ensuring simple installation, and backward compatibility with older mechanical vibration switches, SAVeS modules deliver an entirely new level of configurability, accuracy, and protection at a price level in-line with traditional stand-alone devices.

Technology sets the SAVeS apart from its traditional peers. Featuring a MEMS IMU (micro-electro-mechanical inertial measurement unit)—a system often deployed in advanced navigation and robotic applications—the SAVeS solution combines three accelerometers onto a single chip to support six-axes of motion data acquisition. Application flexibility (including the axis of interest) is managed through the use an integrated e-ink display, a QR code indicated in that display, and configuration via the Altronic **OVERWATCH** app. The innovative HMI approach allows for local user access to fault and other diagnostic details—even following long periods of time without access to external system power.

The first execution of this exciting family of SAVeS sensors is specifically offered as a new and replacement alternative for existing mechanical vibration sensing solutions traditionally used in gas compression and related service. When replacing traditional two-wire vibration devices, a low-cost panel-mounted relay module is used to eliminate the need for any rewiring and/or any breaks in poured seals. The SAVeS shares a common footprint with the Murphy© VS2 devices and can be easily adapted with an available mounting plate when replacing existing Murphy© VS2-EX devices.

The SAVeS is designed for full compliance with Class I, Division 2, Group C and D hazardous operating environments. For further technical and application information, please go to www.altronic-llc.com/product/instrumentation/saves.

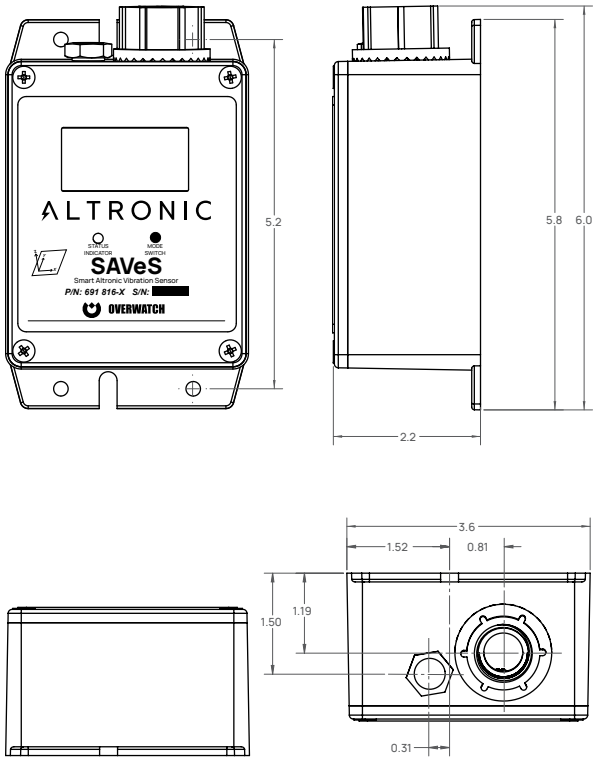
To Order

SAVeS Smart Vibration Sensor 691816-3
Panel-Mounted Detector Module (Two-Wire Replacement Applications) 691819
Mounting Plate for Murphy© VS2-EX Applications 615853

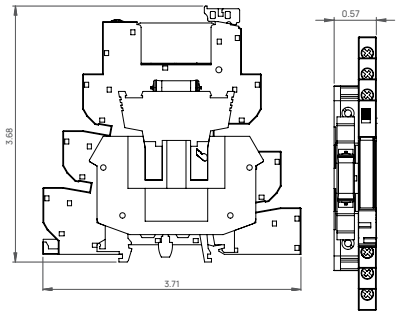
Specifications

Frequency Range ..... 5–500 Hz
Velocity Tolerance[1] ..... ±2% at 40 Hz
Acceleration Tolerance ..... ±4 mG
Maximum Peak Acceleration ..... 64 G max
Power Required[2] ..... 9-32 VDC, 0.1 A nominal, 0.7 A peak
Ambient Operating Temperatures[3] ..... –40 °C to +85 °C (–40 °F to +185 °F)

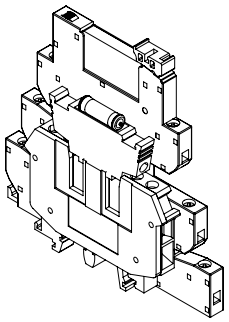
Dimensions

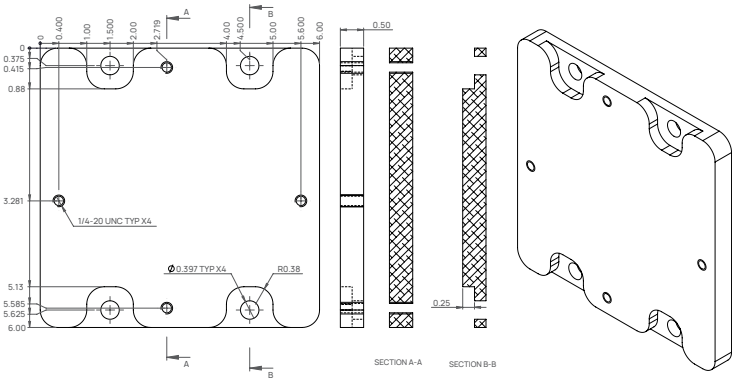


Altronic SAVeS



SAVeS Detector





VS2EX to SAVeS Adapter Plate

1 Velocity accuracy is dependent on both quality and location of mounting.
2 When used with the 691819 Detector Module, input voltage is 18-32 VDC.
3 E-Ink will not work properly at extents of operating temperature, but will recover when temperature is back in its acceptable range.

712 Trumbull Avenue I Girard, Ohio 44420
(330) 545-9768 I Fax: (330) 545-9005
www.altronic-llc.com I sales@altronic-llc.com

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