

VS-302 vector sensor installed in mount with side exit connector INTMOUNT-302-SE

SPECIFICATIONS

| | |
|---|--|
| Output sensitivity, nominal: | |
| Accelerometer | 1.25 V/g |
| Hydrophone | -165 dB re 1.0 V/ μ Pa |
| Full scale input range: | |
| Accelerometer | 1.2 g peak |
| Hydrophone | 285 Pa peak |
| Frequency response, ± 3 dB: | |
| Accelerometer | 3.0 Hz - 8.0 kHz |
| Hydrophone | 2.0 Hz - 10.0 kHz |
| Transverse sensitivity, max | 5.0% |
| Power requirement: | |
| Voltage | 6.8 - 12.0 VDC |
| Current, max (normal mode) | 40 mA |
| Output type, differential | 2.1 - 2.5 V bias |
| Output impedance, max | 100 Ω |
| Pressure range: | |
| Operational, max | 800 psi |
| Absolute max | 1,000 psi |
| Operating temperature | -10° to +60°C |
| Dimensions (inches): | |
| Height | 4.86 |
| Length | 10.75 |
| Width | 4.00 |
| Materials: | |
| Mounting base | hard-anodized aluminum |
| Encapsulation | polyurethane |
| Connector output type | SEACON MINI-CON Series #MINK19-FCR |
| Mounting features | (3x) 0.328 inch drilled through holes for 5/16 or M8 mounting screws |

Note: Vector sensor and mount are not REACH and RoHS compliant.

Key features

- Mount designed for VS-302 vector sensor installation on a UUV
- Acoustically transparent from mounting base up
- VS-302 Vector Sensor
 - Three orthogonal axis accelerometers and one omnidirectional hydrophone
 - Pitch and roll, heading
 - Preamplifier and differential output
 - Micro-controller with RS-485 link
- Wide frequency band: 3Hz - 8kHz
- Low profile, small form factor, aluminum frame
- Two connector options: side exit and bottom exit, part number INTMOUNT-302-BE

PIN-OUT

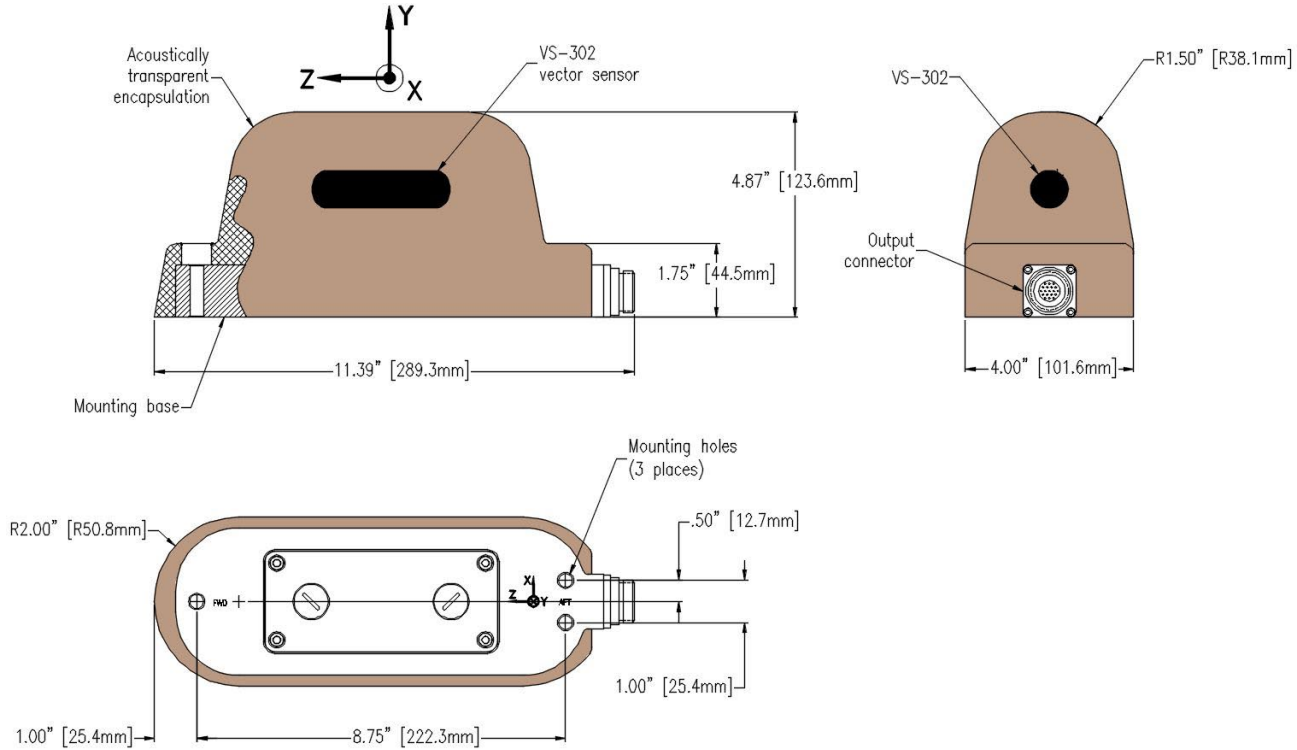
| FUNCTION | ITEM # |
|------------|--------|
| POWER | 19 |
| GROUND | 16 |
| PWR SHIELD | 15 |
| H SIG + | 12 |
| H SIG - | 7 |
| H SHIELD | 11 |
| Z SIG + | 3 |
| Z SIG - | 2 |
| Z SHIELD | 6 |
| DATA + | 1 |
| DATA - | 4 |
| DIG SHIELD | 5 |
| Y SIG + | 8 |
| Y SIG - | 13 |
| Y SHIELD | 9 |
| X SIG + | 17 |
| X SIG - | 18 |
| X SHIELD | 14 |

Note: Due to continuous process improvement, specifications are subject to change without notice.

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DIMENSIONS



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