EXCAVATOR SENSORS
NO CONTACT OR BOUNCING EFFECT

The CAP ENCODER is designed to meet the requirements of harsh environment work. We combined a non-contact sensor, rugged enclosure, and wet mateable connectors and cabling along with 20+ years of marine construction experience to provide a sensor that will withstand the environment and accuracy specs of any project.

- **Non-contact** - works in water, oil, and grease. Resistant to shock and vibration.
- **High accuracy** - 18bits, 262,144 counts per rev, 4.94 arc-secs, 24 micro-rads, .0014 degrees
- **Wet mateable connectors** - Teledyne Impulse or equivalent
- **Rugged Housing** - salt or fresh water
- **USA sold and supported** - reduced lead times and costs. Cable Arm support.

**Applications:**
- Excavator arms
- Machine or bucket rotation
- Outdoor winches
- Swing arm rotation
- Custom applications

**Measurement Performance**
- **Measurement** - Absolute over 360 degrees
- **Resolution** - 18bits, 262,144 counts per rev, 4.94 arc-secs, 24 micro-rads, .0014 degrees
- **Repeatability** - +/- 1 count
- **Internal Update Rate** - <.1 Millisecond
- **Max Speed for Angle Measurement** - 9,000 RPM
- **Max Physical Speed** - 10,000 RPM

**Electrical**
- **Data Outputs** - RS422,SSI-8,ASI,or SPI
- **Power supply** - 12 or 24 VDC
- **Current Consumption** - <100mA, <75mA typical
- **Reverse Polarity** - Yes. To max voltage

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ClamVision® by Cable Arm, Inc. offers a wireless dredge positioning system designed to fulfill the need of most any dredging application. With a versatile software suite and an “off the shelf” hardware package, ClamVision® fits nearly every type of dredge and is easy to install and maintain. From clamshells to cutter heads, excavators to drill barges, ClamVision® gives operators and crew a real-time view of barge and machine position over project. ClamVision® tells the operator where to dig and how deep to go, eliminating all guesswork! It displays a 3-D, color-coded surface derived from existing hydrographic data and projected surface models. And, as always, ALL system information is recorded and stored to a file which can be viewed using any pc, with no need for extra “hard lock” keys. ClamVision® by Cable Arm, Inc. features the best service and support in the industry. Along with each installation, ClamVision® technicians provide solid training to familiarize the crew with the system. Technicians are available by phone and can be on site upon request. ClamVision® technicians also offer services like seafloor imaging and hydrographic surveying to help gather all important information to the jobsite.

ADDITIONAL CLAMVISION® FEATURES:
✓ Cable Arm Tide Gauge with remote transmission to dredges.
✓ Fully wireless data and video communications.
✓ Robust ClamVision® computers to handle tougher work environments.
✓ Dredge Quality Management (DQM), formerly “Silent Inspector”, compatible for scows and dredges.
✓ Full service from Cable Arm® ClamVision® technicians minimizes needless downtime.
✓ ClamVision® software can be integrated to custom job applications.
✓ Clamshell bucket depth available using pressure depth or cable counting systems.
✓ CALC (Cable Arm Line Counter)