



Critical Solutions
International



TREC-DRIVE

ROLLOVER DETECTION WARNING SYSTEM (RDWS)

PROTECTIVE. VERSATILE. ADAPTIVE.

TREC-DRIVE ROLLOVER DETECTION WARNING SYSTEM (RDWS)

FOCUS ON THE MISSION, NOT THE TERRAIN.

The RDWS advises the user of impending dangerous vehicle rollover conditions based on terrain, operation, and vehicle limitations. Weatherproof components and rugged construction ensure suitability for commercial and military vehicles. By combining an easy to read 3.5" TFT color display, proportional audio alert, and a high accuracy inertial measurement unit (IMU), the RDWS gives vehicle occupants all the data they need. Using an exclusive "Roll Risk Estimate" operators can adjust the vehicle's condition and remove the vehicle and its occupants from a dangerous situation. The simplicity of the system, requiring only the display and IMU, keeps installation quick and easy minimizing retrofit costs.



Information screen continuously updates current conditions

EFFECTIVE

Multiple audible alert options

- External buzzer up to 110db
- Output for intercom systems

Multiple visual alert options

- Standard TFT color display
- Customer specific design
- Low cost LED display

Unique threat calculation method

- Accuracy for static and dynamic events
- Adjustable parameters for fine tuning

Proprietary IMU sensor package

- Ensures accurate threat calculation
- Minimizes false alarms



IMU Sensor



Versatile Mounting System

VERSATILE

User customizable operating modes

- Pin code locking option for security

User specific displays and settings

- J1939 CANbus for data output/input
- Onboard relay for controls
 - Emergency egress actuation
 - Options for additional inputs/outputs

Interacts with other TREC-Drive products

- HARB - Hydraulic Anti-Roll Bar
- ProTune - electronically adjustable shocks
- Air Spring - Spring rate and height control
- RHL - Lower vehicle height for transport

Custom display mounting options

SPECS

9-32v operating voltage

- Low current consumption <200mA
- Small space claim requirement
 - IMU - 3.8" x 3.8" x 1.8"
 - Display - 5.5" x 4.5" x 2.0"

MIL-STD-810G Certified

- Sand and dust
- Vibration
- Moisture
- Shock
- High altitude
- High and low temperature

MIL-STD-461F Certified

- Shipping weight 6.5 lbs

ABOUT CSI

Founded in 1999, Critical Solutions International (CSI) provides platforms that detect and mitigate evolving threats for security forces worldwide.



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This product is provided in collaboration with MSI Defense Solutions, CSI's trusted performance component partner.