

ULTIMATE SAFETY



ROLLOVER DETECTION AND WARNING SYSTEM

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Rollover Detection and Warning System (RDWS)

Focus on the mission, not the terrain. The RDWS is a vehicle sensor that alerts the operator of impending dangerous vehicle rollover conditions based on terrain, operation, and vehicle limitations. Its lightweight, rapidly deployable capability is designed to deliver immediate protection for command and control, communication, triage, or comfort in extreme conditions.

Weatherproof components and rugged construction ensure suitability for commercial and military vehicles. By combining an easy-to-read 3.5" color display, proportional audio alert, and a high accuracy inertial measurement unit (IMU), the RDWS is designed to give vehicle occupants all the data they need. Using an exclusive "Roll Risk Estimate," operators can adjust the vehicle's position to avoid dangerous situations. The simplicity of the system, with only the display and IMU, keeps installation quick and easy, minimizing retrofit costs.

Protective

- Multiple audible alert options
- Multiple visual alert options
- Unique threat calculation method
- Proprietary IMU sensor package

Versatile

- Customizable operating modes
- User-specific displays and settings
- Compatible with other TREC-Drive products
- Custom display mounting options

Adaptive

Versatile mounting system



IMU sensor



Information screen continuously updates current conditions

Specifications

AUDIBLE ALERT OPTIONS

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

VISUAL ALERT OPTIONS

- Standard TFT color display
- Low cost LED display

THREAT CALCULATION

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

PROPRIETARY IMU SENSOR

- Ensures accurate threat calculation
- Minimizes false alarms
- Meets MIL-PRF 46676B (AR) test criteria

SECURITY

- Pin code locking option

DISPLAYS AND SETTINGS

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

9–32V OPERATING VOLTAGE

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

MIL-STD-810G CERTIFIED

- Sand and dust
- Moisture
- Altitude
- Height
- Vibration
- Shock
- High and low temperature

MIL-STD-461F CERTIFIED



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