

FEATURES

- **Selectively enable or disable scans**
- **Programmable scan interval from minutes to hours**
- **Programmable state change confirmation scans**
- **Polled, pre-scheduled, and event-triggered reporting**
- **Fully compatible with GlobalWave mobile terminals**
- **Reports include state, position, and event timestamp**
- **Configurable "over the air" or independently via the RS-232 port**

GlobalWave® Cargo Sensor



TransCore's GlobalWave® Cargo Sensor remotely detects the presence or absence of cargo using infrared (IR) light to scan the trailer for freight. This highly reliable and accurate sensor can even detect many soft loads that cannot be detected by typical ultrasonic cargo sensors currently on the market.

The cargo sensor transmits IR light pulses from the front of the trailer toward the rear door. The light pulses strike the cargo, if present, and reflect back to the sensor. The sensor then processes the detected pulses to determine the presence or absence of cargo.

In addition to scanning for the presence or absence of freight, the GlobalWave Cargo Sensor activates event triggers that can help identify possible tampering and theft. An event trigger can also be used to notify fleet managers when trailers are loaded and ready for pick-up or unloaded and ready for assignment, greatly enhancing trailer utilization.

Fleet management can configure scanning for freight in any interval from one minute up to 24 hours and can specify up to seven rechecks or follow-up scans to follow the initial scan. The interval between rechecks is also selectable from one to 60 minutes. This functionality assures that cargo status change is accurately reported.

GlobalWave® Cargo Sensor

COMMUNICATIONS

Detection

- Detection time: 15 ms
- Detection range: 25 feet
- Minimum cargo size: 4 ft x 4 ft x 4 ft

Reporting

- Event reporting shows latest status change
- Real-time polling enabled
- Pre-scheduled reporting enabled (every 1 to 1440 minutes)
- GPS

POWER REQUIREMENTS

Battery input voltage: 5V-9V DC
 Operating current: 150mA
 Idle power consumption: <math><10\mu\text{A}</math>

PHYSICAL

Dimensions: 6 in diameter x 2.4 in deep
 (15.24 cm x 6.09 cm)
 Weight: <math><8\text{ oz}</math> (225 g)
 Rugged manufacture

Sensor Interface

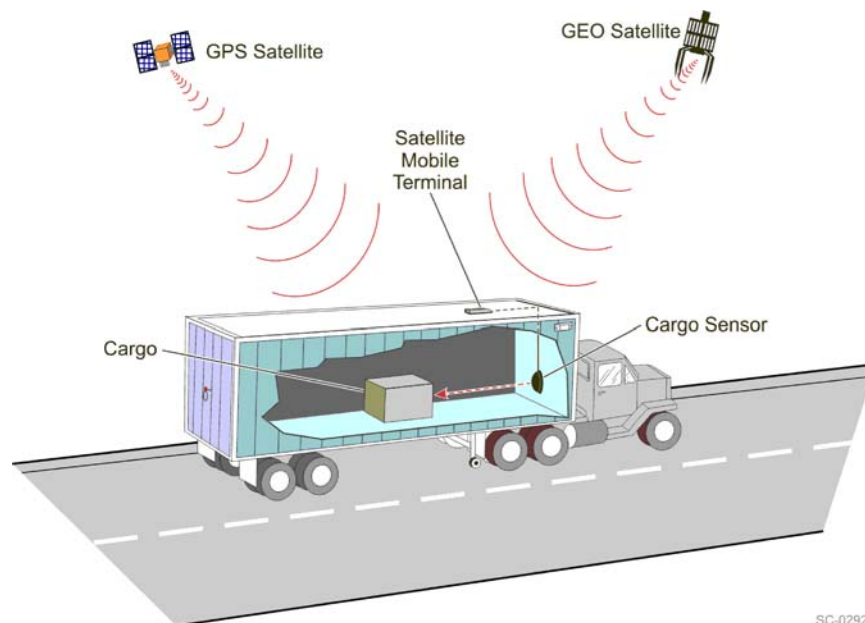
1 RS-232 data port

ENVIRONMENTAL

- Operational temperature range: -40°F to 185°F (-40°C to 85°C)
- Environmentally tested to SAE J1455 standards for:
 - Temperature
 - Humidity
 - Salt spray
 - Splash/immersion
 - Pressure wash
 - Vibration and shock
- EMC/EMI tested to applicable FCC standards

INTEGRATION

Data integration with most enterprise dispatch software systems



SC-0292

Figure 1 GlobalWave Cargo Sensor Overview



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