OPTICOM™ 792M Multimode Strobe Emitter

DESCRIPTION

The Opticom 792M Multimode Strobe Emitter is a compact, lightweight, weather-resistant encoded signal device intended for use on priority vehicles. When used in vehicles equipped with both Opticom Infrared (IR) and Opticom GPS, the Opticom 792M Multimode Strobe Emitter eliminates the need to have a separate IR emitter and radio/GPS antenna modules on the roof of the vehicle. The Opticom GPS vehicle equipment is still required for Opticom GPS operation.

The Opticom 792M Multimode Strobe Emitters consist of an strobe assembly with an integral power supply, integrated radio and GPS antennas for use with Opticom GPS vehicle equipment and the required cables. Accessory switch devices are also available for controlling the IR emitter. The operation of the IR emitter may be customized through its interface software.

The IR encoded signal pattern (composed of the individual vehicle class code and vehicle identification number) generated by the Opticom 792M Multimode Strobe Emitter is programmed through the use of interface software.

The Opticom 792M IR emitter emits precisely-timed pulses of infrared light at the base flash rate of approximately 10 or 14 Hz. It also interleaves programmed encoded pulses that carry the vehicle class and ID number information. These infrared pulses are sensed and processed by other Opticom IR system components to activate the system.

AVAILABLE MODELS

- Opticom 792HM Multimode Strobe Emitter: High-priority emitter
- Opticom 792TM Multimode Strobe Emitter: Low-priority emitter

FEATURES

- Integrated GPS and 2.4GHz antennas for use with Opticom GPS vehicle equipment
- Discrete, penetrating infrared communication
  – Directional
  – Consistent, day and night transmission
  – All-weather performance
- Compact, single source system
- High- and low-priority IR operation as well as probe-frequency capability
- IR encoded signal transmission
  – High priority: 10,000 discrete vehicle IDs (10 classes of vehicles and 1,000 individual codes available within each class)
  – Low priority: 10,000 discrete vehicle IDs (10 classes of vehicles and 1,000 individual codes available within each class)
- Remote range-setting capability
- J1708 serial interface
- 2004/104/EC vehicle Directive compliance
- SAE J575 Section 4.2 Vibration compliance
- Installation flexibility
  – Mounts directly on roof of vehicle

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- Automatic IR emitter disable, indicated by slow flashing of the emitter switch's indicator light
- Self-diagnostic with visual feedback through the IR emitter switch's indicator light
- Cumulative IR emitter flash counts available through the interface software
- 25' cables included
- Mounting bracket and hardware included
- Antennas assembly and IR emitter assembly individually replaceable

OPERATING PARAMETERS

- Integrated Opticom GPS system 2.4GHz RF antenna
- Integrated Opticom GPS system GPS antenna
- 10,000 vehicle codes available in high priority
- 10,000 vehicle codes available in low priority
- Automated range-setting feature
- Less than 5 amp peak current draw
- Self-diagnostics
- Precisely controlled high-priority flash rate of 14 Hz
- Precisely controlled low-priority flash rate of 10 Hz
- Transmission range up to 2,500 feet (762 m)
- Electrical
    – Input Voltage: 10 to 16VDC
    – Current: < 5 amp
- Environmental
    – Operating Temperature: -34°C to +74°C (-30°F to +165°F)
    – Relative Humidity: 5% to 95%

PHYSICAL DIMENSIONS

Opticom 792M Multimode Strobe Emitter

Depth: 6.2 in. (16 cm)

Width: 5.8 in. (14 cm)

Height: 3.7 in. (9 cm)

Weight: 3.1 lb. (1.4 kg)

Cables length: 25' (7.6m)

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