DESCRIPTION

The Opticom 794 LED Emitter is a compact, lightweight, weather-resistant encoded signal device intended for use on priority vehicles. The Opticom 794 emitter consists of an LED array with an integral power supply and the required cables. Accessory switch devices are also available. The operation of the device may be customized through its interface software or remote coding unit.

The encoded signal pattern (composed of the individual vehicle class code and vehicle identification number) generated by the Opticom 794 emitter is determined after installation through the use of interface software or remote coding unit.

The Opticom 794 LED Emitter is capable of being programmed via the RC790 remote coding unit, eliminating any dependency on a computer. By simply pointing the RC790 at the Opticom 794 emitter, the user can communicate vehicle class and ID, visible LED, disable mode, diagnostics and default settings with just pushes of a button.

Description of Models
- Opticom 794H LED Emitter: High-priority emitter
- Opticom 794L LED Emitter: Low-priority emitter
- Opticom 794T LED Emitter: Low-priority emitter with reduced output for transit signal priority applications
- Opticom 794R Emitter: Range-setting emitter for high priority, low priority or probe frequency

FEATURES
- Discrete, penetrating infrared communication
  - Directional
  - Consistent, day and night transmission
  - All-weather performance
- Compact, single source system
- High- and low-priority operation as well as probe-frequency capability
- 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
- RS485, J1708 serial interface
- Low power consumption

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**Opticom 794 LED Emitter**

- CE certified
- SAE J575, SAE J1455 compliant
- Improved installation flexibility
  - Mounts directly on vehicle
- Automatic emitter disable, indicated by slow flashing of the emitter switch’s indicator light or emitter’s visible LEDs
- Self-diagnostic with visual feedback through the switch’s indicator light and visible LED indicator lights
- Cumulative flash counts available through the interface software or RC790 diagnostic mode

**ACCESSORIES**

- Switches
  - Rocker-type switch for knockout/panel mounting (with simple mounting bracket) (model 793B)
  - Three versions of fully enclosed pushbutton switches (with dashboard mounting bracket)
- On/Off only (model 793S)
- On/Off for high-priority, low-priority and probe frequency with range setting

**OPERATING PARAMETERS**

Opticom 794 LED Emitter

- High- or low-priority and probe-frequency operation selected by model and switch combination
- 10,000 vehicle codes available in high priority
- 10,000 vehicle codes available in low priority
- Automated range-setting feature
- Isolated power supply and emitter for positive or negative ground vehicle power system
- Less than 1 amp peak current draw
- Self-diagnostic
- 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 32 VDC
  - Current: < 1 amp
- Environmental
  - Temperature: -30° F (-34° C) to +165° F (+74° C)
  - Relative Humidity: 5% to 95%

**PHYSICAL DIMENSIONS**

Opticom 794 LED Emitter

- Depth: 2.25 in. (5 cm)
- Width: 5.8 in. (14 cm)
- Height: 3.7 in. (9 cm)

Model RC790 Remote Coding Unit

- LCD display and a keypad
- Operates on four AAA batteries
- Length: 6.3 in. (16 cm)
- Width: 3.7 in. (9.4 cm)
- Thickness: 1.0 in. (2.5 cm)
- Weight: 0.5 lb. (.2 kg)

<table>
<thead>
<tr>
<th>793S Switch</th>
<th>793B Switch</th>
<th>793R Switch</th>
<th>Customer-supplied switch</th>
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<td>Opticom 794H Emitter</td>
<td>High Priority/Off</td>
<td>High Priority/Off</td>
<td>Not available</td>
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<tr>
<td>Opticom 794L Emitter</td>
<td>Low Priority/Off</td>
<td>Low Priority/Off</td>
<td>Not available</td>
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<tr>
<td>Opticom 794T Emitter</td>
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<td>Not available</td>
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<tr>
<td>Opticom 794R Emitter</td>
<td>Not available</td>
<td>Not available</td>
<td>High and Low Priority/Off/Probe Frequency and Range Setting</td>
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