**DESCRIPTION**

The Opticom 795H Low-Profile LED Emitter is a compact, lightweight, encoded signal device intended for use inside emergency vehicle light bars. The Opticom 795H is intended for installation by Original Equipment Manufacturers (OEMs) and authorized OEM installers only.

The Opticom 795H consists of an LED emitter array with an integral power supply. Accessory switch devices are also available. The operation of the device may be customized through its interface software.

The encoded signal pattern (composed of the individual vehicle class code and vehicle identification number) generated by the Opticom 795H is determined after installation through the use of interface software.

The Opticom 795H separates precisely timed pulses of infrared light at the base flash rate of approximately 14 Hz. It also interleaves programmed encoded pulses that carry the vehicle class and ID number information. These additional pulses are sensed and processed by other Opticom Infrared System components to activate the system.

**FEATURES**

- Non-visible, penetrating infrared communication
  - Directional
  - Consistent, day and night transmission
- Compact, single-source system
- Encoded signal transmission
- 10,000 discrete vehicle IDs
- RS485, J1708 serial interface
- Low power consumption
- Mounts directly into most low profile lightbars
- Emitter disable capability, indicated by slow flashing of the emitter switch’s indicator light and/or visible LEDs on the emitter
- Self-diagnostic with visual feedback through the switch’s indicator light and visible red LEDs on the front of the emitter
- Cumulative flash counts available through the interface software
OPERATING PARAMETERS

• High priority
• 10,000 vehicle codes available
• Isolated power supply and emitter for positive or negative ground vehicle power system
• Less than 300mA peak current draw
• Self-diagnostic
• Precisely controlled high-priority flash rate of 14 Hz
• Transmission range up to 2,500 feet (762 m)
• Electrical
  – Input voltage: 10 to 32 VDC
  – Current: less than 300mA
• Environmental
  – Temperature: -30° F to +165° F (-34° C to +74° C)
  – Relative Humidity: 5% to 95%
• Vibration: SAE J575, June 2007 Section 4.2.2
• Shock: SAE J1455, 2006 Section 4.11.3.4
• Humidity: SAE J575, June 2007 Section 4.4

PHYSICAL DIMENSIONS

Depth: 1.6 in. (4 cm)
Width: 5.7 in. (14.5 cm)
Height: 1.2 in. (3 cm)
Weight: 0.5 lb. (.22 kg)

ACCESSORIES

• Opticom Configuration Software Model 790CS
• Switches
  – Rocker-type switch for knockout/panel mounting (with simple mounting bracket – model 793B)
  – Fully enclosed pushbutton switches (with dashboard mounting bracket)
• On/Off (model 793S)
• Interface software
  – Download at www.gtt.com
  – Available programming cable (Part #79-1000-0157-0)
• Model 793S Switch, Model 793B Switch, Customer-supplied Switch