

3M OPTICOM™ PRIORITY CONTROL SYSTEM



The 3M Opticom™ emitter is available as an installed option on Federal Signal lightbars.

The 3M Opticom™ Priority Control System Model 792 Emitter is a compact, lightweight, weather resistant, encoded signal device intended for use on emergency vehicles. The emitter is comprised of a flash-tube/reflector and housing assembly with an integrated power supply and the required cables. The emitter converts 12 VDC vehicle battery power to the high voltage required for operation of the unit.

The encoded signal pattern (comprised of the individual vehicle class code and vehicle identification number) generated by the emitter is determined after installation through the use of interface software available from 3M.

The emitter separates precisely timed pulses of high intensity light in the infrared and visible wavelengths at the base flash rate

of approximately 10, 12, or 14 Hz. It also interleaves programmed encoded pulses that carry the vehicle class and ID number information. These energy pulses are sensed and processed by Opticom system components at traffic signals to cause activation of the system. When the system is activated, traffic signals turn green providing emergency vehicles with the right-of-way.

Federal Signal offers the 3M 792 Opticom as an individual emitter or as an installed option in VISTA®, Vector®, ViewPoint®, AeroDync®, and JetStream™ LED lightbars. Brackets for installing the 792 Opticom in these lightbars are also available as installed options or field replacement kits.

Please note that when installed in a lightbar, 3M Opticom emitters must be installed behind CLEAR domes.

QUICK REFERENCE

FEATURES

- Discrete infrared communication.
- Compact, single source system.
- Encoded signal transmission.
- Self-contained power supply.
- Low power consumption – less than 5 amps peak current draw.
- Transmission range up to 2,500 feet (762 meters).
- Available as an installed option in VISTA, Vector, ViewPoint, AeroDync, and JetStream LED lightbars.

APPLICATIONS

- Fire apparatus
- Law enforcement vehicles
- Ambulances

RELATED PRODUCTS

- AeroDync® Lightbars
Bulletin #3102
- Vector® Lighting System
Bulletin #3117
- ViewPoint® Lighting System
Bulletin #3124
- JetStream™ LED Lightbar
Bulletin #4302
- VISTA® Lightbars
Bulletin #3132

HOW TO ORDER

1. Specify 792 Opticom stand-alone system.

3M792H Opticom emitter, black

OR

1a. Specify 792 Opticom as an installed option (bracket included).

V-3M792H-A 792 Opticom installed in Vector and Viewpoint lightbars

X-3M792H-A 792 Opticom installed in VISTA lightbars

25-3M792H-A 792 Opticom installed in AeroDynic and JetStream lightbars

OR

1b. Specify bracket only for 792 Opticom as an installed option.

V-3M792BKT-A Bracket only, installed in Vector and ViewPoint lightbars

X-3M792BKT-A Bracket only, installed in VISTA lightbars

25-3M792BKT-A Bracket only, installed in AeroDynic and JetStream lightbars

OR

1c. Specify bracket for 792 Opticom as a Field Upgrade Kit.

V-3M792BKT Bracket for Vector and ViewPoint lightbars

X-3M792BKT Bracket for VISTA lightbars

25-3M792BKT Bracket for AeroDynic and JetStream lightbars

SPECIFICATIONS

Input Voltage	10–16 VDC
Current Draw	Less than 5 amps

Dimensions

Height	3.7 in. (9.4 cm)
Width	5.8 in. (14.7 cm)
Depth	3.5 in. (8.9 cm)
Shipping Weight	1.9 lbs. (0.9 kg)