SE-3285  Multi-Fitter Assembly for Post Top Mounting of Traffic Signals

Pelco Products, Inc., the leading manufacturer and design innovator of traffic signal hardware announces the release of their new plastic Multi-Fitter Assembly for post top mounting of traffic signals on 4-1/2” O.D. poles. The Multi-Fitter Assembly provides for a variety of traffic signal configurations from a 1-Way through a 4-Way by attaching the plastic Signal Mounting Arms to the Multi-Fitter. A removable Cap provides easy access for tightening the Signal Arm mounting hardware. By removing the threaded Octagonal Closure Cap, a traffic monitor or sensor can be mounted in the top accessory port.

The design of the Multi-Fitter Assembly is well suited for moist, coastal climates where metal corrosion can shorten the life of a typical metal post top assembly. For strength and corrosion resistance, the Multi-Fitter Assembly is made of durable injection molded, fiberglass reinforced black plastic. All of the fasteners and hardware are Stainless Steel and can be tightened without special tools or equipment.

The Signal Mounting Arms are about 9-1/2” long and locate the traffic signals at about 12” from the center of the pole. The Signal Mounting Arm has standard signal serrations and 1-1/2” threaded openings on both the top and bottom sides to accommodate standard traffic signal hardware. When used for Side-of-Pole signal mounts, the Signal Mounting Arms can be used as upper and lower arms, without the Post Top Multi-Fitter, by banding or lag screwing the Arms directly to the traffic signal pole.

For safety the electrical conductors to the Traffic Signals are concealed inside of the Signal Mounting Arm and the Post Top Multi-Fitter. The openings needed for installing the electrical conductor and arm attachment hardware in the Post Top Multi-Fitter are “knockouts” that are easily removed with either a screwdriver or a socket.

Contact Pelco Products, Inc. at 405-340-3434 for additional information.

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Eberle Design, Inc. Introduces The Ideal Power Source When Using High Current Devices Such as Video Detection Cards

Eberle Design, Inc. (EDI), recognized worldwide as the leader in traffic control signal monitoring, vehicle detection, and other mission critical traffic control component products, today announced the immediate delivery of the Model PS-250 “Shelf Mount” Cabinet Power Supply.

The PS-250 Cabinet Power Supply is a shelf mounted unit which supplies regulated DC power, unregulated AC power, and a line frequency reference. It is intended for powering the Detector Rack, Bus Interface Units, load switches, and other auxiliary cabinet equipment. The PS-250 meets and/or exceeds all requirements of the NEMA TS2-2003 Standard.

The PS-250 provides a full 5 Amps at 12 VDC, allowing a large number of power hungry video detection cards to be operated in the detector rack. This is an additional 36 watts over the conventional TS-2 cabinet power supply requirements.

Basic Functions:
The PS-250 provides four outputs rated over the full -30°F to 165°F (-34°C to +74°C) NEMA operating temperature range:

- +12 VDC rated at 5 Amps (Standard NEMA requirements are 12 VDC at 2 Amps)
- +24 VDC rated at 2 Amps
- 12 VAC rated at 0.25 Amps
- 60 Hz Line Frequency Reference rated at 50 mAmmps

Display Indicators:
A separate LED indicator is provided to display output status and fuse integrity for the three supply outputs. The Line Frequency Reference LED indicator pulses to show 60 Hz activity.

Test Points:
Individual test jacks are provided for the +12 VDC output, +24 VDC output, and Logic Ground reference.

Output Protection:
The +12 VDC, +24 VDC and 12 VAC outputs are fused for over-current protection. The Line Frequency Reference output is protected internally against shorts to Logic Ground or 24 VDC. Each output is protected against voltage transients by 1500 Watt suppressor.

Dimensions:
8.2 inches High x 4 inches Wide x 8 inches Deep.

For additional information, please contact Carl Zabel at 480-968-6407.

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Carmanah Uses LED Illumination to Build a Safer Stop Sign

Carmanah unveils world’s first energy efficient Edge-Lit illuminated Stop Sign

Carmanah Technologies Inc. is pleased to announce a new roadway application for its innovative LED edge-lit sign lighting technology: the LED-illuminated stop sign.

Inadvertently running stop signs is a serious and persistent problem in rural areas where drivers lose concentration and in urban settings where drivers are often distracted. In fact, in the U.S., accidents at stop signs account for about 79,000 crashes per year.

Carmanah’s new LED edge-lit stop sign provides an intersection safety solution that is significantly less expensive than a traffic signal installation and 90 percent more energy efficient than fluorescent backlit signs.

Carmanah developed the octagonal sign frame, compliant with the U.S. Federal Highways Administration Manual of Uniform Traffic Control Devices (MUTCD),
Carmanah Uses . . .

for a city in Texas where eight problem intersections have been identified for trial of illuminated stop signs. Other locations will be considered after an evaluation of the initial installation.

“We are delighted that the possibilities of our edge-lit signage have captured the imagination of traffic officials,” said Carmanah’s CEO Art Aylesworth. “The illuminated stop sign is an exemplary application of our versatile LED edge-lit sign technology.”

LED (Light-Emitting Diode) technology is rapidly becoming the preferred light source for illuminated signs. In an LED edge-lit sign, light from high-flux, ultra-bright LEDs concealed in the sign frame shines vertically through a clear acrylic sheet and refracts outwards through the sign legend for crisp, uniform illumination of the sign face.

The result is improved stop sign visibility at all distances and in all conditions, and an expected reduction in the incidence of crashes. Enhanced sign visibility gives drivers more time to stop and addresses the visibility needs of older drivers.

Advantages of Carmanah’s LED edge-lit signage include:
• Ultra-slim construction, easy and inexpensive to install;
• Maintenance intervals 10 times that of fluorescent tubes, eliminating the significant recurring costs of bulb and ballast replacement. White LEDs have a lifespan of 50,000 hours;
• Extreme energy efficiency. A six-foot sign requires less than 15 watts, compared to 192 watts for a fluorescent sign (Carmanah is an EPA Energy Star® partner);
• Retro-reflective construction ensures visibility in the event of a power failure, and low wattage facilitates the option of battery backup.

Sign illumination is an increasing priority as the world’s populations age. Starting at age 20, the amount of light needed by drivers to see doubles every 13 years. According to FHWA studies, older drivers have reduced contrast sensitivity and greater difficulty isolating relevant visual targets, requiring more time to process information and react appropriately. When consulted, they have indicated a need for bigger and brighter stop signs.

Carmanah is a leader in the field of LED edge-lit illumination, with over 11 years of expertise and 50,000 signs installed worldwide. Traffic agencies in over 12 states have already installed Carmanah’s next-generation LED-illuminated street-name and traffic control signs. Customers include the cities of St. Charles (MO), Camarillo (CA), Broomfield (CO), and Tyler (TX).

For complete information about Carmanah’s roadway lighting products, visit www.roadlights.com. For more information about Carmanah, please visit www.carmanah.com.

GELcore Improves Color and Intensity Uniformity in New Incandescent-Look LED Traffic Signal

New GT1™ 8-inch (200mm) and 12-inch (300mm) full ball LED traffic signals from GELcore, LLC, give traffic management professionals throughout North America, GE-quality, incandescent-like LED solutions that are both key to new specifications of the Institute of Transportation Engineers (ITE) and outfitted with unique, performance-enhancing attributes:
• The GELcore-designed optical lens system precisely controls light collection and distribution to produce a tight color uniformity (+/- 3 nanometers) that meets the new ITE specifications.
• Designed for both fixed- and span-wire applications, the flat design of the patented optical lens system uses the latest in high-brightness, high-power LED devices to deliver exceptionally consistent brightness and module readability with a luminous intensity uniformity that meets new ITE specifications.
• Weatherproofed against blowing rain, high winds and other sources of environmental stress, it uses radially compressed O-ring gaskets and over-molded electrical lug connectors to provide outstanding moisture and dust intrusion protection ratings that meet ITE specifications.
• Improved failed-state impedance protection detects the loss of LED load to reduce the likelihood of a false reading by traffic control equipment, and meet new ITE specifications.

Thanks to strides GELcore has taken in the area of thermal management and the company’s commitment to the customer-focused Six Sigma design process, highly energy-efficient GT1™ traffic signals are optimized for the longest possible average rated life. Designed for direct retrofits and easy maintenance with a field replaceable front lens free of optics, the GT1™ is available with red, yellow or green LED light engines, and clear or tinted lenses.

GT1™ signals are designed around the new ITE specifications, CSA-approved and available as ENERGY STAR-rated solutions. Using MIL Std 810 for environmental robustness, GT1™ passed rigorous reliability and qualification testing, including high-temperature and high-humidity cycling. Each GT1™ module is backed by a 5-year limited warranty.

For more information about GELcore, please call 216.606.6555 or visit www.gelcore.com.