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MEDIA ADVISORY

Optronics Makes Surface-Mount Fusion LED Combination Stop, Tail, Turn and Backup Lamp 25 Percent Smaller, Adds Patent-Pending Technology

Optronics' new Fusion six-inch oval multi-function surface-mount LED lamp uses unique new patent-pending electronic and optical innovations that make it smaller and less expensive.

INDIANAPOLIS, Ind., USA (Feb. 24, 2016) — [Optronics International](#), a leading manufacturer and supplier of heavy-duty LED vehicle lighting, is presenting its newly redesigned Fusion LED combination stop, tail, turn and backup lamp in [booth 3885 at the 2016 NTEA Work Truck Show in Indianapolis, Indiana](#). The new Fusion lamp is 25 percent smaller and includes new, optimized, circuitry that hosts both red and white LEDs on a single board, and a patent-pending optical design unlike anything else on the market.

The original nine-inch oval Fusion lamp was introduced at the 2014 Work Truck Show and has since been made available in four-inch round and six-inch oval formats with grommet- and flange-mount versions that fit virtually any standard lighting application. The entire family of Fusion LED combination stop, tail, turn and backup lamps are also being upgraded utilizing the new technology.

The Fusion lamps have been radically redesigned and now employ a more advanced circuit board configuration and LED light projection technology that has a patent pending. An optical bridge helps project red LED light from the red area of the lens to the clear area of the lens during the braking function. The innovative design enables the lamps to use fewer diodes, reduces heat load and lowers the overall lamp cost.

“We have completely reengineered the Fusion LED combination stop, tail, turn and backup lamp and the result is a superior lamp design,” Brett Johnson, president and CEO of Optronics International, said. “Our new Fusion lamps are smarter, more advanced and more economically priced.”

Before the introduction of the Fusion surface-mount LED combination lamp, vehicles used separate six-inch oval or four-inch round stop, tail, turn lamps and backup lamps. Each lamp needed its own mounting hole, and these holes were made in the vehicle body panels, frame posts, docking plates or gussets. Each lamp hole reduced structural integrity and enabled moisture, road debris and other contaminants to migrate into the cavities behind the lamps.

Mounting the new six-inch Fusion surface-mount LED combination lamp requires only a half-inch hole for the lamp's wiring and four mounting holes to accommodate rivets or screws. The low-profile, half-inch-thick LED lamp mounts snugly to the vehicle's surface while preserving the vehicle's structural soundness.

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Whether flush-mount, grommet-mount or flange-mount, the two-in-one LED lamp concept reduces SKUs and carrying costs and eliminates the need for a separate backup lamp, often still the realm of incandescent bulbs. Fusion LED combination stop, tail, turn and backup lamps provide greater reliability, broader functionality and a much longer service life. The Fusion offers the marketplace two LED lamps for the price of only one.

“Our original Fusion lamps set a new standard in lamp design and functionality, and our new Fusion design continues that legacy,” Johnson said. “We expect customers in work truck, HD, RV and transit vehicle markets to all be thrilled with these new lighting options.”

The new Fusion LED combination stop, tail, turn and backup lamps are expected to be available in the second quarter of 2016. The lamps meet all FMVSS 108 photometric requirements for visibility and safety. Lenses and housings are made of tough polycarbonate material that is sonically welded. The lamps employ a solid-state, surface-mount device (SMD) design that protects their electronics against moisture, shock and vibration. Like all LED products from Optronics, all Fusion lamps come with no-hassle, one-diode lifetime warranty protection that will replace the lamp if even one diode fails.

Optronics products are available in the U.S. and Canada through the company’s extensive [distribution network](#) of more than 12,000 convenient distribution locations. Users can access individual Optronics distributor websites by simply clicking on their logo icons. For information on international sales and distribution of Optronics products, please contact Dorian Drake at +1 (914) 697-9800, or visit <http://doriandrake.com>.

To access high-resolution product images of the new Fusion LED combination stop, tail, turn and backup lamps, please visit:

<http://www.optronicsinc.com/RESOURCES/ImageGalleries/FUSIONGallery2.aspx>

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About Optronics

As the fastest-growing vehicle lighting manufacturer in the U.S., Optronics International attributes its success to delivering better value, better options and better lighting to its customers. Founded in 1972, Optronics International is a premier worldwide manufacturer and supplier of branded industrial and commercial vehicular safety lighting products. The company specializes in interior and exterior LED and incandescent lighting for the HD, work truck, RV, trailer, transit and marine vehicle markets. The Optronics product catalog is among the most extensive in the industry. Optronics is headquartered in Tulsa, Oklahoma, and has an ISO/TS 16949:2009 certified manufacturing facility in Annan District, Tainan, Taiwan. The company also has ISO 9001:2008 certified distribution facilities in Muskogee, Oklahoma and Goshen, Indiana, as well as distribution through its location in Ontario, Canada. Learn more at <http://www.optronicsinc.com>.

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