Making Safety Lighting Safer with a Distinct Design

THE X FACTOR

Even today, many work trucks are fitted with separate 6-inch oval or 4-inch round stop, tail, turn, backup, and warning lamps. Each lamp requires a wiring and mounting hole in the vehicle body panels, frame posts, docking plates, or gussets. Each of these holes can reduce structural integrity and by their nature of being holes, can contribute to the intrusion of moisture and other contaminants that are generally understood to contribute to corrosion and potentially structural degradation.

"Our customer's products are developed and manufactured to deliver quality, value, and performance," says Marcus Hester, chief marketing officer for Optronics International. "We heard immediate positive feedback from the marketplace when Optronics introduced its Fusion LED combination stop, tail, turn, and back-up lamp, because it consolidated multiple lamp

functions into one, while significantly reducing the number of wire and mounting holes in truck bodies."

Originally introduced in a 9-inch oval format, the Fusion LED combination lamp was soon also made available in 4-inch round and 6-inch oval sizes with grommet-, flange-, and surface-mount versions that fit virtually any standard lighting application. Optronics Fusion lamps changed the equation by combining multiple lamps into a single lamp footprint, reducing complexity and cost, while helping maintain a truck body's structural integrity.

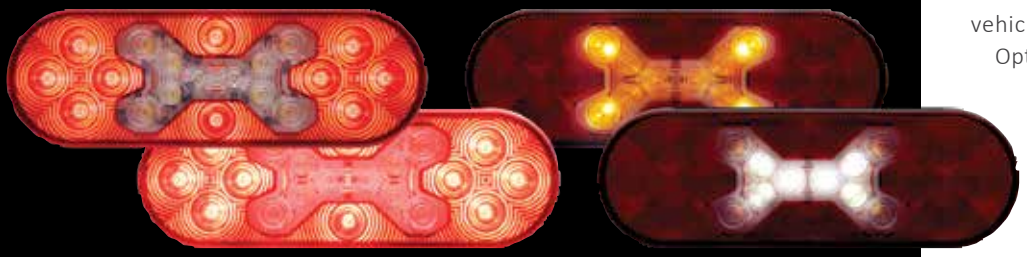
"As an example, mounting a 6-inch Fusion surface-mount LED combination lamp requires only a half-inch hole for the lamp's wiring and four mounting holes to accommodate rivets or screws," Hester says. "The low-profile, half-inch-thick LED lamps mount snugly to a vehicle's surface while preserving the vehicle's structural soundness."

Multiple lamps can be wired to operate flashers either asynchronously or be connected, allowing users to achieve synchronized illumination patterns. This feature enables fleets to choose the flash sequence that best meets their environment.

WARNING!

Optronics recently announced its new STLW FusionX family of combination stop, tail, turn, backup, and warning lights. Featuring a signature "X" LED lighting array in their centers and available in eight versions, the FusionX lamps are the newest members of Optronics' Fusion Series combination lamps.

FEATURING A SIGNATURE "X" LED LIGHTING ARRAY IN THEIR CENTERS AND AVAILABLE IN EIGHT VERSIONS, THE FUSIONX LAMPS ARE THE NEWEST MEMBERS OF OPTRONICS' FUSION SERIES COMBINATION LAMPS.



THE FUSIONX FULLY MEETS FMVSS 108 REQUIREMENTS AS WELL AS SAE J595 STANDARD FOR CLASS 2 AND CLASS 3 DIRECTIONAL WARNING LAMPS.

LIKE ALL LED PRODUCTS FROM OPTRONICS, THESE LAMPS COME WITH A NO-HASSLE, ONE-DIODE LIFETIME WARRANTY PROTECTION THAT WILL REPLACE A LAMP IF EVEN ONE DIODE FAILS.

Until now, combination lamps with warning light features have had the potential to be misunderstood because their flashing warning lights continue to operate even when their brake lights illuminate. The dual illumination patterns of these noncompliant lamps could confuse others on the road by presenting mixed signals. The issue made these lamps impractical for many vehicles, particularly those in the utility, construction, and roadside service sectors.

"Previously, end users had to install separate warning lights because there just wasn't an adequate solution out there," Hester explains. "Our fleet users have vehicles and workers in the field night and day—24/7, and they demand the utmost in safety and regulatory compliance for their vehicles."

Optronics' FusionX LED combination lamps solved the problem by disabling the warning light function as soon as the brake light is illuminated. The warning override feature helps eliminate potential misinterpretations by others on the road or worksite and allows the FusionX to fully meet FMVSS 108 requirements. The lamps also meet the SAE J595 standard for Class 2 and Class 3 directional warning lamps.

"Optronics' new FusionX offers fleets and body builders all of the benefits of a multifunction combination lamp in addition to being DOT compliant in all modes of operation," Hester adds. "This is a highly functional and compliant combination stop, tail, turn, backup, and warning lamp, and its unique x-shaped central LED looks attractive and is attention getting."

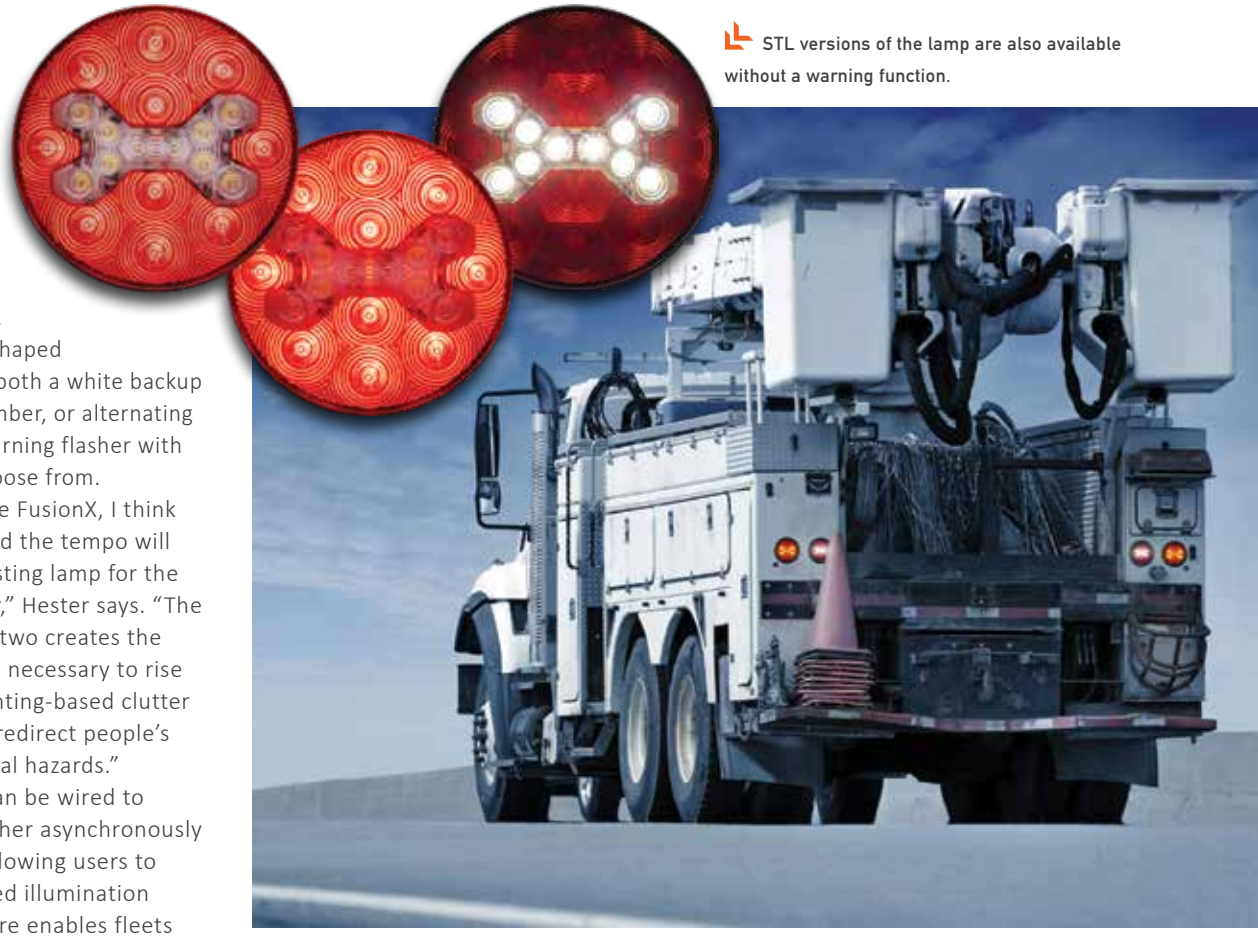
CUSTOM FLEET FIT

According to Hester, warning lamp programmability is also a critical feature for fleet buyers. He suggests that each fleet has their own idea of the most attention-getting sequence.

With four preprogrammed flash patterns to choose from, the FusionX STLW lamps with their warning light offer users significant flexibility. Their centralized x-shaped LED array serves as both a white backup light and a white, amber, or alternating white and amber warning flasher with two cadences to choose from.

"In the case of the FusionX, I think the flash pattern and the tempo will make this an interesting lamp for the industry to consider," Hester says. "The combination of the two creates the visual novelty that's necessary to rise above the other lighting-based clutter on the road and to redirect people's attention to potential hazards."

Multiple lamps can be wired to operate flashers either asynchronously or be connected, allowing users to achieve synchronized illumination patterns. This feature enables fleets to choose the flash sequence that best meets their environment. "STL" versions of the lamp are also available without a warning function.



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WORK-READY

The lamps come in grommet-mount versions as well as flange-mount versions. The STLW314MGHB grommet-mount version is also available in the STLW314MSHB recess-flange-mount version. The STLW316MGHB grommet-mount version is also available in the STLW316MSHB surface/flange-mount version.

"These are very versatile and functional lamps," Hester adds. "The FusionX offers the marketplace the kind of flexibility it's looking for."

The lamps come hardwired and ready to install. As an integrated electrical system solutions provider, Optronics is also able to configure the lamps with industry standard connectors by request. FusionX lamps are available in both bulk and polypack packaging.

The lamp's lenses are made of tough polycarbonate material that is sonically welded and resistant to dust and moisture and is suitable for harsh operating conditions. 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, these lamps come with a no-hassle, one-diode lifetime warranty protection that will replace a lamp if even one diode fails.

"The FusionX family of LED lights was designed to be compact, highly functional and exceptionally attractive," Hester notes. "The lights specifically address multiple industry lighting needs that were not being met—and look slick doing it."

The new STLW and STL FusionX family of combination stop, tail, turn, backup, and warning lights are available in sample form now and are expected to be commercially available for shipping by the end of 2022.

"The addition of a compliant warning light function in the FusionX was a logical next step in the evolution of the Fusion Series," Hester says. "Optronics is always striving to address industry needs and to make its lighting products more valuable to the end user. I think we've more than succeeded with the FusionX."

FOR MORE INFORMATION

Find out more about Optronics' Fusion Series LED lighting, visit www.optronicsinc.com.