

APPLICATION BRIEF

UTILITY INDUSTRY



ART. 500
590.4



1926

Woodhead® Portable Floodlight from Molex Illuminates Potential Hazards for Natural Gas Utility Workers

Molex ensures natural gas utility service trucks are properly equipped with portable lighting.

Business Challenge: Equipping Natural Gas Utility Service Trucks with Proper Illumination. Natural gas lines can be opened or damaged when utility services are installed or repaired or when customers accidentally strike a line by digging. Opened or damaged lines can lead to possible gas leaks which are sometimes difficult to detect and can be very dangerous.

Local gas utility workers are immediately notified and arrive in their service trucks to inspect the site anytime, day or night, rain or shine. Workers need to get to work right away to minimize any risk of leakage. It is essential that their worksite is properly lighted so they can move around safely and perform inspections and repairs efficiently so temporary lighting is usually required. There is not time for workers to worry about light operations or safety concerns of the lighting at the worksite.

Woodhead products have been serving the natural gas utility industry for decades, providing innovative temporary lighting and accessories that are third-party rated. Unfortunately, most portable, wide area lighting found in the industry today consists of

standard quartz flood lighting commonly found at local home centers which usually:

- Require significant assembly in the field
- Is not rugged for the abuse they receive in the field trucks and have simple connections, joints, and components not designed for rough service
- Is not easily collapsed for storage and is subject to additional damage inside the trucks because they do not collapse
- Can create a burn hazard and may easily tip over
- Is not rated for use in explosive atmospheres, causing a significant hazard to natural gas utility workers

Solution: Hazardous Location Woodhead Portable Flood Light. Portable, easy to re-lamp and rewire, the worklight features two 300-watt halogen lamps that do not heat the enclosure above 160C, rubber (SOW) cordset and a hazardous location plug to provide optimum flexibility and portability in a multitude of hazardous location applications such as natural gas service utility locations, refineries, shipyards, and fuel oil loading docks.

The Portable Flood Light's collapsible Tripod complements the worklight as its lightweight, yet sturdy companion. The shock absorbent ABS base support allows the legs to open to more than five feet in diameter when fully opened and the light heads have full three axis adjustable light heads, 360 degree directional range and a telescoping height – 50 to 64 inches offering complete flexibility to light wide areas in challenging worksites. Both the worklight and the tripod are provided with convenient storage cases.

It is CSA approved and compliant to more than 10 US and Canadian standards. Engineered to provide the ultimate in performance, reliability and safety, its key features are designed to directly address the need for safety and portability in potentially explosive environments. It is rated Class 1, Division 1, Group C&D with a T3C temperature rating and is suitable for methane atmospheres. It carries

enclosure ratings of NEMA 1, 2, 3R and 4x so it can be used in some of the most rugged, abusive, outdoor environments. It supports NEC ART. 500 requirements and OSHA 1926 requirements for protection against accident breakage and NEC 590.4 requirements that establish the minimum performance criteria for temporary lighting products.

Benefits and ROI: Safer Worksites Mean More Productive Workers. Providing proper ambient and task lighting in industrial work spaces not only protects workers from injury, which is of paramount importance, but also makes good business sense. Comfortable workers can work faster, with greater confidence and efficiency. This can improve overall productivity and morale, resulting in higher profitability and worker retention.



To learn more about Woodhead® electrical products and solutions, call your Molex representative today or call 1-800-225-7724 or visit www.woodhead.com

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