

Vehicle Systems

SPECIAL HAZARD APPLICATION

Vehicle system fires often impact the operator, the vehicle, and the environment in which the vehicle is operating. This may include factories, construction sites, transportation depots, ports, forests, recycling centers, and mines. These fires can result in property damage, production downtime, environmental hazards, and injuries or fatalities to workers.

The frequency of industrial or commercial vehicle system fires depends on the type of vehicle, the operating conditions, and maintenance practices. Excessive heat generated by engine components, such as the exhaust system, catalytic converter, or turbocharger, can ignite flammable fluids such as engine oil and coolant, hydraulic, or brake fluids. Leaks are often caused by worn seals, damaged hoses, or inadequate maintenance. Faulty wiring, connections, or electrical components within the engine compartment can cause short circuits, electrical arcing, and overheating. These are some of the challenges associated with vehicle systems as many of these systems experience sustained operation under heavy load.

Protectowire linear heat detectors are designed for the harsh operating environments associated with vehicle systems compartments. Linear heat detection can be easily installed in industrial vehicles such as bulldozers, waste haulers, buses, front loaders, and subway cars. Usually installed in engine bay areas, linear heat detectors are designed to provide a fast response in this harsh environment. Often paired with a vehicle suppression system, through proximity detection the linear detectors minimize the risk of injury and equipment downtime.

