



# PROTECTION ON THE MOVE

Vehicle Automatic Fire Extinguishing System (AFES)



*A Tyco International Company*





# COMPREHENSIVE PROTECTION FOR VEHICLES ON THE JOB

For industrial, commercial and military vehicles, unchecked fire remains among the greatest threat to life and assets. Containment must be immediate and total. The ANSUL Automatic Fire Extinguishing System (AFES) provides fast, reliable protection for petroleum, oil and lubricant fires, in the widest range of vehicle platforms.



Engineered for minimal weight and ease of integration, the ANSUL AFES is centered on unique high-speed infrared optical detection and central alarm/control.

Within milliseconds of slow-growth and rapid-spread explosive events, fire is detected and suppressed with a field-proven agent, activated either automatically or manually depending on severity.

Over the past four decades, the ANSUL brand has been built around the unique protection and compliance requirements of customers throughout industry. The ANSUL AFES is no exception.

**MIL-SPEC COMPLIANT ■ GLOBAL SUPPORT NETWORK**

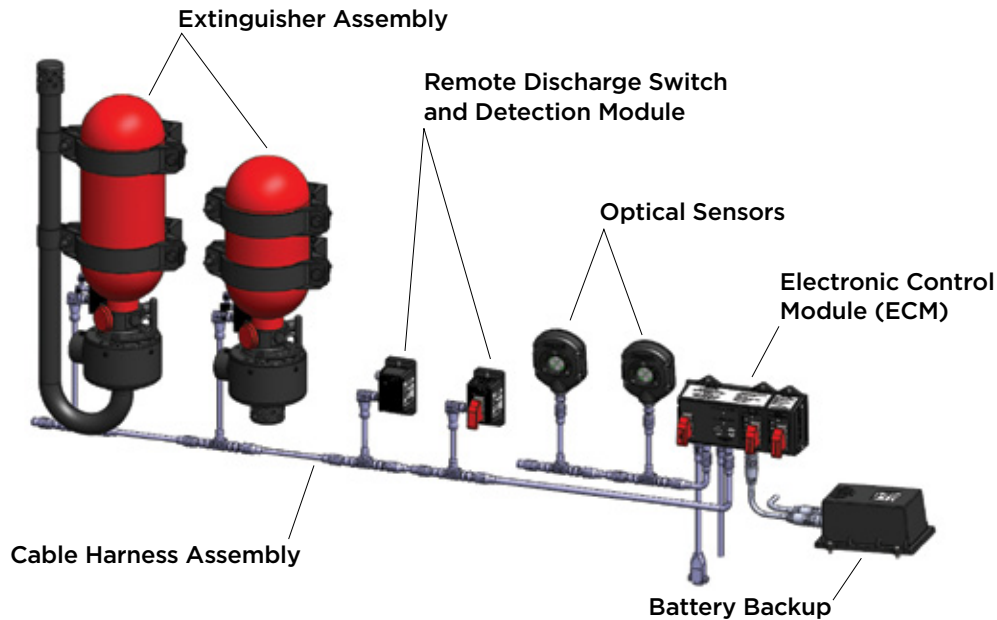
**VERSATILE CONFIGURATION/DESIGN OPTIONS**

**FIELD-PROVEN EXTINGUISHING AGENT ■ LIGHTWEIGHT AND FLEXIBLE**

**MANUAL OR AUTOMATIC DETECTION/ACTUATION**

# BUILT FOR SPEED

## TYPICAL ANSUL AFES COMPONENTS



In occupied areas, the system consists of an Electronic Control Module (ECM), Quad-Infrared (IR) optical sensor(s), Class I, II or III extinguisher cylinders and a series of remote discharge switches, detection modules, extinguisher modules, battery backup and cable harness.

When fire breaks out, the ECM is quickly notified by the Quad-IR sensor(s), which then activates visual and audible alarms. The ECM is capable of automatically or manually initiating discharge of the extinguishing agent from one to eight separate zones.

In engine and cargo bays, wheel wells and other non-occupied areas; linear detection wire (LDW) and spot thermal detection sends information to the ECM, again allowing for manual or automatic operation.

## FLEXIBILITY IS THE BOTTOM LINE

A full complement of nozzles, diffusers and cylinder configurations are available. Zones of protection can be tailored to specific aiming/flooding needs.

## HIGH-SPEED VALVE & CYLINDER ASSEMBLY

- 750 psi (51.71 bar) nominal pressure
- Discharge force less than 20 psi (1.38 bar) at five inches (127 mm) from nozzle
- Clean agent/dry chemical extinguishant
- Forged aluminum alloy valve assemblies reduce weight
- Pressure/flow monitored by a single transducer
- MIL-DTL-7905H/DOT 3AA Non-Shat Cylinders
- Visual pressure gauge(s), pressure relief valves
- Independent mechanical release

## TYPICAL VEHICLE APPLICATIONS:

- Construction
- Logging
- Marine
- Military
- Occupied Spaces
- Shipping/Freight
- Transit
- Utility

## MIL SPEC COMPLIANT:

- MIL-STD-810
- MIL-STD-461
- MIL-HDBK-217
- MIL-DTL-7905

## HIGH-SPEED VALVE & CYLINDER ASSEMBLY





## ELECTRONIC CONTROL MODULE (ECM)

As central control for the entire fire suppression system, the rugged ECM is designed to perform reliably under extreme environmental and physical conditions. Key features include continual power-fault monitoring, self-diagnostic routine (SDR) at start-up and onboard computer communication link.

Other features include:

- Environmentally sealed enclosures and connectors
- M12-style plug-and-play connections
- Lightweight alloy enclosures
- Mounting feet provide for installation on any surface
- External 24 VDC and battery backup power connection
- Sealed membrane push buttons
- Extinguisher tank pressure monitoring
- Zone-selectable configuration
- Expandable to eight separate zones
- CANbus capability

## OPTICAL SENSOR

The Quad-IR optical sensor technology used by the ANSUL AFES is unique, with an unmatched ability to differentiate between open flames and hydrocarbon signatures from non-threatening sources such as cigarettes and engine heat. Quad-IR optical sensors help eliminate false alarms and accidental engagement – preserving protection for when it's actually needed.

## WORLD-CLASS SUPPORT

ANSUL is a leading brand of Tyco Fire Protection Products, providing complete protection solutions to military, industrial, commercial and institutional customers around the world. We're a global enterprise dedicated to providing the resources needed both during and after the sale, including specification assistance, hands-on training, technical support and more.

Tyco Fire Protection Products is committed to meeting the fire protection needs of our customers. Contact us for more information on the ANSUL AFES or other fire protection solutions, or to include us in your bid packages.

## ELECTRONIC CONTROL MODULE (ECM)



## OPTICAL SENSOR





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