PROUDLY PROTECTING THOSE
AMEREX DEFENSE ®
WHO PROTECT US

Amerex Defense
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Crew Compartment
Automatic Fire/Explosion Suppression Systems

The Amerex Crew Compartment Automatic Fire & Explosion Suppression System is fielded in various commercial applications where fast response is necessary to protect personnel and valuable equipment. Rigorous MIL testing demonstrates the reliability needed in high intensity Military/Tactical and Off-Road environments.

Micro-controller based components enable flexibility in system design and adjustment of features to a specific requirements. RS-485 communication provides outputs for control, set up, maintenance and diagnostics.

Nozzles are designed for installation versatility using deflection to safely and effectively distribute agent into the hazard area.

Main Features

- UV/IR Dual-Sensors
- High Speed Detection - Less than 3 Milliseconds
- Rapid Agent Release - Less than 8 Milliseconds
- Sensitive to Slow Growth Fires
- Power & Fault Signals
- Controller Integral Manual Activation Button
- Optional Secondary Manual Actuation Button
- Blackout Compatible

- Immunity to False Alarm
- Discrimination (optional)
- Automatic and Manual Built-In Test (BIT)
- RS-485 Modbus Compatible
- High Reliability - MTBF Minimum 100,000 Hours
- Tested for Demanding Military and Industrial use MIL-STD-810G/1275B/461E/7905H

Configuration Options		
Stand-Alone Detector/Controller Module	Multi-Zone Controller	Dual Zone Controller
Combines with up-to 2 Additional Optical Detectors	Operates up to 10 Detection Devices across 4 zones	Operates up to 5 Detection Devices Across 2 Hazard Zones

Deflector Nozzles			Test Equipment		Manual Operation
360° Pattern	180° Pattern	Custom Pattern	Fire Simulator	Extinguisher Simulator	Emergency Button
		Nozzles can be modified or created to suit unique system installations when necessary			

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Operation Specifications	
OPERATING VOLTAGE	18-32 VDC
POWER CONSUMPTION	500mA for 30 min - 15mA after 30 min (BPM)
SPECTRAL RESPONSE	UV/IR
RESPONSE TIME	MAX. 3 ms (when exposed to explosion)
FIELD OF VIEW	90° Conical View From Detector(s)
BUILT-IN-TEST	Continuously Monitors Optical Cleanliness & Provides Operational Status of the Cylinders and System Circuitry
DISCRIMINATION (OPTIONAL)	Disables Detection Signal When No Fuel Ignition/Explosion/Fire Occurs Following Penetration
DETECTION THRESHOLD	MIN one Detection Signal / 5 seconds when aimed at the base of a 5 inch gasoline pan fire placed 35 inches from the center flame.

Configuration Options	
BACKUP POWER MODULE (BPM)	Minimum 2 or 10 Minute BPM's Available (Longer for Larger Systems)
EXTINGUISHER CAPACITIES	up to 6.6lbs of HFC-227ea + BC per Extinguisher up to 8 Extinguishers for Larger Combined Systems
OPTICALS	Expandable From 1 to 8 Detection Devices Combine to Protect Various Combinations of Zones
MANUAL ACTIVATION	Manual Activation Button Integrated to the Detector Controller Secondary Manual Activation Buttons Available
CONNECTORS	Vary Based on Program Requirements
CONTROLS	Configurable Control Panels Available for Larger Multi-Zone Protection Systems

False Alarm Susceptibility

The Detector Shall Not Provide a Detection Signal Under Any of the Following Conditions:

Direct/Reflected Sunlight	IAD*
100W Frosted Incandescent	1"
100W Clear Incandescent	2"
40W Fluorescent w/ white enamel reflector	IAD
Ambient Light Extremes (Glare)	IAD*
Bright Clothing (Red/Orange)	IAD*
180 W/second Electronic Flash	IAD*
625W Quartz Lamp - Movie Light (S.G-55)	24"
Blue/Green Vehicle Dome Light 24VDC	IAD*
Flashlight	IAD*
4000 VAC Arc - 15/32" Gap	1"
Acetylene Welding 00 Tip (5/8x6")	8"
100A Arc Welding Rod (5/32"Ø)	24"
1500W Radiant Heater	IAD*
1000W Radiant Heater W/Fan	IAD*
Muzzle Flash M16 3-Round Burst	2"
Lit Cigar	IAD*
Lit Cigarette	IAD*

Immune @ Any Distance*

Amerex Defense offers fire protection for all of the many hazards encountered on vehicles and other equipment with systems designed to meet demanding requirements.

Visit www.amerex-defense.com or contact us for more information on how to protect:

Crew Compartments	Engine Bays
Tires	Under-Engine/Chassis
Flammable Storage	ISO Containers
Vehicle Exteriors	And More....

We offer
- Dry Chemical Systems
- Wet Chemical Systems
- Aerosol Systems
- Flightline & Rescue Equipment
- Various Configurable Control Systems
- Autonomous Systems (No use of vehicle power)
  - And More....