



Amerex Defense

PO Box 81 Trussville AL 35173-0081
 PH (205)655-5703 • FAX (205)661-4111
 defensesales@amerex-defense.com



Configurable Detection & Release System (CDRS) for Military and Commercial Heavy Duty Vehicles

The Amerex Defense Configurable Detection & Release System (CDRS) designed specifically for rugged military and commercial heavy duty ground vehicle applications where fast detection is critical. The lightweight enclosures surround military qualified electronic components. The Central Control & Distribution (CCD) Panel and Operator Interface Panel (OIP) support up to a total of 8 Programmable Heat Detectors (PHD's) on 2 separate hazard detection zones. The CDRS can also accommodate Linear Heat Detection (LHD) wire or other thermal detection devices as well as remotely mounted manual actuation switches.



(CCD)

The CCD is also a self-contained Backup Power Module that operates for 30 minutes after vehicle shutdown unless disabled with the integrated maintenance switch.

The PHD's can be programmed to alarm at specific set points and/or specific rate in temperature rise. Both parameters can be used to eliminate false alarm in fast warm-up situations. The PHD mounts as a bulkhead device on up to a 1/2" panel to reduce the need for additional hardware.



(OIP)

Shown with rear mounted connector; bottom connector also available.



(PHD)

Main Features & Benefits

- Rugged Enclosure
- Tactile Feel Control Switch(es)
- Push to Test Visual Verification
- Wide Viewing Angle LED's
- Supervises All Connected Electrical Circuits
- Vibration Resistant Detection Circuit
- Spot Thermal & Linear Heat Detection Compatible
- Trouble LED's Identify System Status
- Blackout/Dim Mode Compatible
- 10-30 VDC Operating Voltage
- Low Power Consumption
- Easy Installation & Maintenance
- Configurable Detection Zones
- Various Actuation Devices
- Accessible Real-Time Monitoring
- Circular Mil Style Connectors
- Remote Manual Toggle Switches Available
- Tested for Demanding Military Use
 MIL-STD 810G, 461F, 704F & 1275D

Mechanical Specifications	CCD	OIP	PHD
MOUNTING PATTERN	3.7W x 4.9H	3.7W x 3.7H	~Ø25/32
MOUNTING HARDWARE	1/4"	1/4"	-
OVERALL DIMENSIONS (in.)	4.35W x 6H x 3.23D	4.3 x 4.3 x 2.5D	Ø1.18 x 1.77 Probe Guard Ø1.2 x 1.2 x 1.6 Device Body
WEIGHT (LB.)	~2lb	~1.4lb	<0.25lb
ENCLOSURE	ALUMINUM		
OPERATING TEMPERATURE	-60°F to +160°F		-60°F to +550°F*
ENVIRONMENTAL	TESTED TO MIL-STD-810G		

*Sensor Probe Operating Temperature

Electrical Specifications	
OPERATING VOLTAGE	10-30 VDC
POWER REQUIREMENTS	~750mA CHARGING (~8 minutes) ~70mA STANDBY
SUPERVISED CIRCUITS	Vehicle Power (2) CLASS B ACTUATION ZONES (2) CLASS B DETECTION ZONES (8) PHD LOCATIONS (1) MANUAL RELEASE (1) PRESSURE MONITOR CIRCUIT
BACKUP POWER TYPE	SUPERCAPACITOR
BACKUP SUPPORT TIME	30 MINUTES