

The controller receives input from the various sensors, verifies whether it is a real fire and then sends a signal to release the extinguishing agent.

Microprocessor based electronics, enable flexibility to fit specific system configurations and operating logic. The typical control panel includes mode selector, indication and warning signals, Built-in-Test (BIT) capabilities. Modern RS-485 serial communication port enables connection to a main control system and can be used for maintenance and trouble-shooting.



MAIN FEATURES

- * High Speed Response (less than 3 msec)
- * Accepts input signals from optical, wire heat and two spot heat detectors
- * Monitors and activates extinguishing cylinders
- * Indication and warning signals
- * Integral Manual Activation
- * Normal and Combat modes of operation for crew compartment
- * Automatic cylinder activation and back-up
- * Overheat indication for engine compartment
- * Accepts external manual activation inputs
- * Automatic and Manual Built-In-Test (BIT)
- * High Reliability
- * RS-485 Modbus Compatible
- * MTBF Minimum 100,000 Hours

CONTROL SPECIFICATIONS

Input from Detectors

- * Supplies protected voltage to detectors.
- * Accepts fault or alarm signals from the detector
- * Provides activation signal to the extinguishers

Monitoring of Cylinders Status

Continuously monitors for circuit continuity, pressure level and adequate operation of cylinders

Outputs

Indication and Warning Signals

- * Provides activation outputs for cylinders
- * "Power" LED - indicates proper power supply
- * "Cylinder" LED- indicates proper cylinders and harness status
- * "Detection" LED - indicates detection signal. Flickers at warning level, steady at alarm level.
- * Detection "Fault" Led – indicates detectors fault

Built In Test (BIT)

Identifies and indicates faults in the electrical circuits of the control, provides operational status of the cylinders and their circuitry.

Manual Extinguisher Activation

Enables manual activation of the cylinders. Can be located on the panel or externally.

ELECTRICAL SPECIFICATIONS

Operating Voltage	18-32 VDC
Power consumption	Normal 300mA Max. 18A in approx. 30msec.
Electrical Connection / Pinout	<p>Connector J1 <i>D38999/24WB98PN</i></p> <p>24V In A RTN B</p> <p>Connector J2 <i>D38999/24W19SA</i></p> <p>Crew Cyl. Out 1-A, 2-D, 3-G, 4-K Crew Cyl. RTN 1-B, 2-E, 3-H, 4-L Crew Cyl. Pressure SW 1-C, 2-F, 3-J, 4-M Engine Cyl. Out 1-N, 2-S Engine Cyl. RTN 1-P, 2-T Engine Cyl. Pressure SW 1-R, 2-U</p> <p>Connector J3 <i>D38999/24WC98SN</i></p> <p>Heat Wire Detector 1-A, 2-C Signal Heat Wire Detetor RTN 1-B, 2-E 24V In D RTN E Cylinders Activation via Control Box F, H Activation Engine Cyl. G Activation Crew Cyl. 2-J, 4-K</p> <p>Connector J4 <i>D38999/24WD19SN</i></p> <p>Detector 24V Out 1-A, 2-E, 3-J, 4-N, 5-T Detector RTN 1-B, 2-F, 3-K, 4-P, 5-U Detector Signal 1-C, 2-G, 3-L, 4-R, S-V BIT Input, Detector 1-D, 2-H, 3-M, 4-S</p>
Electrical Input Protection	According to MIL-STD-1275B
Electromagnetic Compatibility	EMI/RFI per MIL-STD-461E
Inputs	Receives signals from heat detectors Receives signals from extinguisher pressure switch

MECHANICAL SPECIFICATIONS

Dimensions	9.37" x 6.02" x 3.31" (238mm x 153mm x 84mm)
Weight	4.85 lb (2.2 kg)
Enclosure	Aluminum, white epoxy enamel finish
Environmental Standards	Meets MIL-STD-810E for High Temp, Low Temp, Humidity, Vibration, Shock, Waterproof, Dust, Salt & Fog