

Model 801-DRL

MEGGITT SAFETY SYSTEMS INC

MODEL 801-DRL FIRE/OVERHEAT DETECTOR

KEY FEATURES

- Qualified to FAA TSO-C11e
- Proven Pneumatic Operation
- No Connector Required Aircraft Wiring Mates to Terminal Studs
- Integrated Wire Harness/Guide Eliminates Chafing and Breakage
- Immune to EMI and RF Signals
- Superior Performance under Extreme Temperature & Vibration Conditions
- No Scheduled Maintenance

GENERAL DESCRIPTION

The Model 801-DRL Fire/Overheat Detector operates on the same pneumatic principle as our widely used and proven Model 801-DRH, 801-RDS, and 801-DRSS detectors. The DRL responder assembly has been repackaged to reduce weight and optimize reliable operation temperature, high high vibration in environments. Dual terminal studs permit direct "hardwire" connection to aircraft wiring. The studs are sized differently to preclude cross-wiring.

The detector consists of a switch assembly and a continuous-length temperature sensor. The two pressure-sensitive switches (Alarm and Integrity) are sealed inside a hermetic housing and connected to the sensor via a manifold. The sensor is a length of flexible stainless steel tubing containing helium gas, and hydrogen gas within a special core material.



OPERATION

Alarm. If the ambient temperature around the sensor increases, or a short section of sensor is exposed to extreme heat, gas pressure inside the detector increases proportionately. Pressure increase to a factory-set value closes an electrical contact and actuates the alarm circuit. When the temperature decreases, lowering the internal pressure, the Alarm switch opens and the detector is automatically reset.

Integrity. The responder Integrity switch is held closed by normal gas pressure. If the sensor is severely damaged to the point of leaking, the resulting loss of gas pressure will cause the Integrity switch to open and signal a fault.



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