

FIRE AND OVERHEAT DETECTION

The fire and overheat detection system components of the Main Landing Gear (MLG) are:

- Two fire detection loops (A and B),
- Four fire detectors,
- A Fire Detection Unit (FDU).

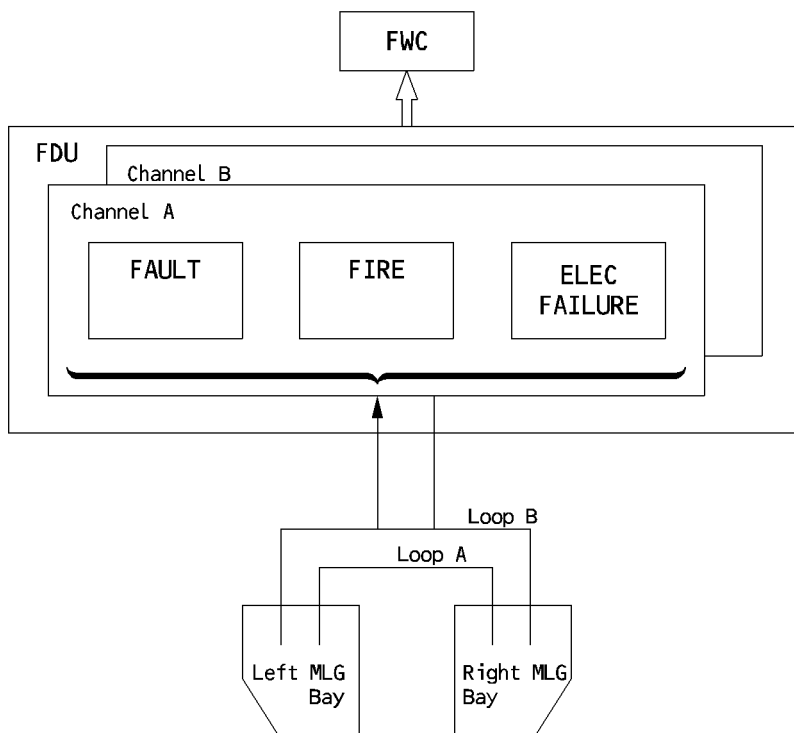
Each of the 2 loops (A and B) of the fire and overheat detection system has 2 fire detectors, one in each MLG bay. These 2 loops are connected in parallel, to the MLG's Bay Fire Detection Unit. The FDU has 2 independent channels (A and B), which are identical. Each channel receives and analyzes the signal from its related detection loop and then generates the appropriate signals to the Flight Warning Computer (FWC).

A FIRE warning signal is triggered if :

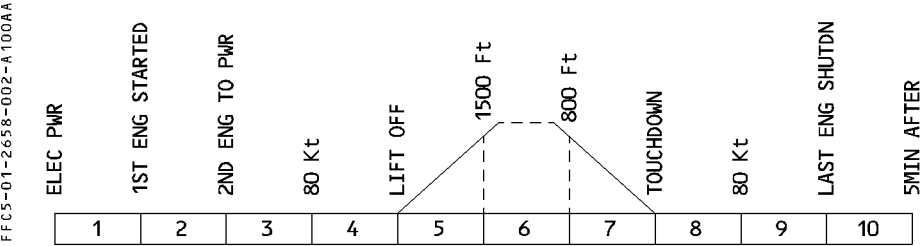
- An overheat is detected in both loops.
- One loop detects an overheat, and the other one has failed or has an electrical failure,
- Both loops fail in less than 5 seconds.

If both loops have failed, a FIRE DETECTION FAULT caution is triggered.

In flight, fire in the MLG bay is extinguished by extending the landing gear (SPD < 250knots/0.55).



WARNING AND CAUTIONS



E / WD: FAILURE TITLE conditions	AURAL WARNING	MASTER LIGHT	SD PAGE CALLED	LOCAL WARNING	FLT PHASE INHIB
MLG FIRE Overheat has been detected in the MLG bay.	CRC	MASTER WARN	WHEEL	NIL	7,8
FIRE DET FAULT Both A and B loops have failed without fire detection or electrical failure.	SINGLE CHIME	MASTER CAUT	NIL		3 to 8
FIRE LOOP A(B) FAULT Only one loop has failed	NIL	NIL			