

APPLICATION SHEET

LDM-519-ACT-N LHDC MONITOR / CONTROLLER

Operating Solenoid Valves and Contactors

General

The LDM-519-ACT-N actuation output may be employed to operate solenoid valves or contactors.

The solenoid / contactor coils must have a 'flywheel diode' fitted to suppress induced reverse *emf* spikes during switching.

Coils of resistance greater than 190R (up to 3W at 24Vdc) can be monitored for both open and short circuit faults.

Coils of resistance less than 190R (greater than 3W at 24Vdc) can be monitored for open circuit fault (disconnection) only. (The unit circuitry would otherwise register the coil's normal resistance as a fault)

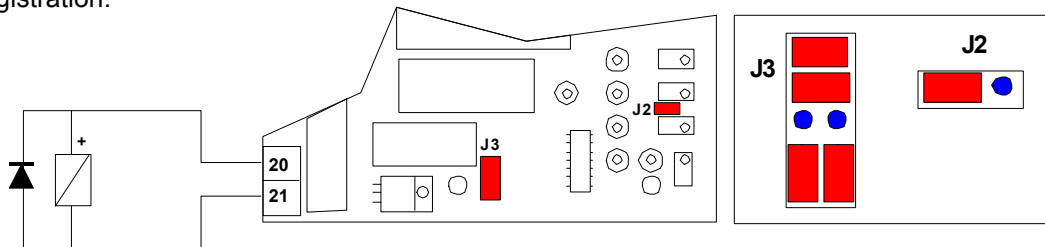
Low Power Solenoid / Contactor - Coils 190R or greater.

Connect device coil and set jumpers as shown below.

Adjust the actuation fault set potentiometer for a maximum reading at the 'F' test jack - measured with reference to the 'Com' test jack (This should be approx. 1.2 V).

The reading at 'L' will be less than at 'F' and may even be negative for high resistance coils. A short circuit of the 'actuation' circuit will cause the voltage at 'L' to rise above that at 'F' and a fault will be registered.

Disconnection of the circuit will cause the 'L' reading to go to full scale negative (-6V) with a consequent fault registration.



High Power Solenoid / Contactor - Coils less than 190R

The arrangement is principally as for high resistance coils, except for the re-positioning of J2.

The 'L' reading will be negative or zero at all times.

Short circuit of the 'actuation circuit' does not register as a fault.

