The Model DSE701 MKII **Engine Control Module** is designed to control the engine via a key switch and pushbuttons on the front panel. The module is used to start and stop the engine and indicate fault conditions, automatically shutting down the engine and indicating the cause of failure by LED, giving true, first up fault annunciation.

The auxiliary input on the controller can be configured using the *DSE Configuration Suite Lite PC Software.* This gives the user the option to have a remote start module or for an auxillary fault input when used in a manual only application.

In the ⬤ position the DC supply is removed from the module and the run output is de-energised.

The module is powered up when ⬤ is selected.

MODULE OPERATION
MANUAL START MODULE

1. Turn the key to the RUN ⬤ position
2. The pre-heat will start automatically as soon as the RUN mode is engaged and last for the duration of the configured time.
3. Press START ⬤ button to crank engine.

AUTO START MODULE

1. Turn the key to the RUN ⬤ position
2. The pre-heat will operate automatically prior to the starting of the engine.
3. Press START ⬤ button or apply the remote start input to crank engine.

The starter disengages automatically in both operation modes when the engine fires, the safety on delay timer is then initiated.

Operation of any of the following alarms (which are close on fault) will cause the fuel output to de-energise:
- Low Oil Pressure
- High Coolant Temperature
- Auxiliary Shutdown
- Overspeed - (Nominal frequency selector switch accessible through slots in base of module).

This will remove the fuel supply from the engine and bring it to rest.
Each alarm has its own LED indicator and once activated no further alarm conditions will be accepted. The alarm output and relevant LED will remain active until the unit is reset by turning the switch to the ⬤ position.
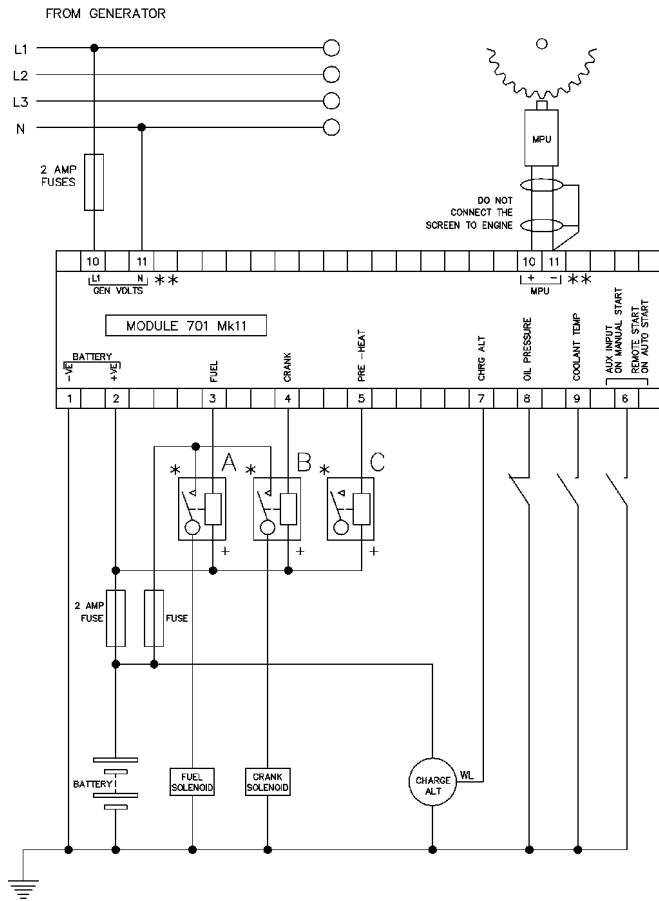
TYPICAL WIRING

FROM GENERATOR

L1
L2
L3
N

2 AMP
FUSES

MPU

DO NOT
CONNECT THE
SCREEN TO ENGINE

| 10 | 11 | | | | | | | | 10 | 11 | | |

L1 N **
GEN VOLTS

L+ - **
MPU

MODULE 701 Mk11

BATTERY

FUEL   CRANK   PRE-HEAT   CHRG ALT   OIL PRESSURE   COOLANT TEMP   AUX INPUT ON MANUAL START   REMOTE START ON AUTO START

-VE +VE

| 1 | 2 | | 3 | | 4 | | 5 | | | 7 | 8 | 9 | 6 |

* A * B * C

2 AMP
FUSE   FUSE

BATTERY

FUEL
SOLENOID

CRANK
SOLENOID

CHARGE
ALT   WL

BATTERY NEGATIVE MUST BE GROUNDED

TERMINALS SUITABLE FOR 22-16 AWG (0.6mm^2 - 1.3mm^2) FIELD WIRING

TIGHTENING TORQUE = 0.8Nm (7lb-in)

* NOTE. ALL THE OUTPUTS ARE SOLID STATE AND ARE NEGATIVE SWITCHING

** NOTE. CONNECT EITHER MPU OR AC VOLTS FOR SPEED REFERENCE