

DESCRIPTION

The Blandon Systems microprocessor range of KEY START modules have been designed to provide local START/STOP control for diesel engines. Incorporated in this range of panel-mounted modules are all the safe guards required to protect your diesel engine. If required the safeguards can automatically stop the engine, should a fault occur. Positive indication of the fault is displayed via LED indicators

INSTALLATION

The control module has been designed to be panel mounted via a through hole panel cut out. The controller is to be inserted in to the control panel from the front side. Two securing clips, supplied, are then attached to each side of the controller case. They should be turned until the screw head comes into contact with the front fascia, and tightened until secure.



Note: In order for the starter motor output (2) and pre-heat output circuits (10) to be activated, the W/L (Warning Light) signal on terminal (9) must be at 0 volts prior to starting the engine, LED position 3 lit. This is a protection procedure to prevent the starter motor engaging on to a running engine. As the engine starts the W/L volts will rise to the battery charging voltage, and LED position 3 with turn off.

APPLICATIONS

- **Marine Engines**
- **Stationary Engines**
- **Agriculture Engines**
- **Tractors**

The controller is highly versatile and is suited to any of these applications, plus many others.

Switch Positions

Control of the generator is through a three position momentary key switch, located on the front fascia. This controls the outputs to the fuel and start circuits.



STOP/RESET → Removes power from the module, disabling the ignition circuits, thus stopping the engine. All alarm conditions are reset.

FUEL ON → Enables the fuel output thereby engaging the fuel system of the engine. The alarm/fault detection circuits are enabled.

START ENABLE (Momentary) → A start signal (B+ve) is switched to the start output terminal, which in turn engages the starter motor.

FEATURES

Module Dimensions(HxWxD)...65x65x130mm
Housing.....Metal Box
Panel cut out.....68x68mm
Pre-Heat Control..... Output Relay 16 Amp
Fuel Control.....Output Relay 16 Amp
Starter Motor Control.... Output Relay 16 Amp
Low Oil Pressure shutdown.....Input
High Coolant Temperature shutdownInput
Customer spare shutdown.....Input
Charge fail indication.....Input
Dc Voltage Available for.....12 or 24

LED INDICATIONS

Position	LED	ICON	STATUS
1	Green		Fuel On
2	Red		Pre-Heat
3	Red		W/L
4	Red	N/A	N/A
5	Red	N/A	N/A
6	Red		Temp Fail
7	Red		Oil P Fail
8	Red		Spare

CONTACT SWITCHES

The rear of the controller houses a 4 position Dual in Line (DIL) dipswitch. This allows the controller to be correctly configured for operation with the engine protection switches

Switch	Parameter	ON	OFF
1	Oil Pressure	N/O	N/C
2	Coolant Temp	N/C	N/O
3	Spare	N/C	N/O
4	PH @ Crank	On	Off

TYPICAL INSTALLATION

KEY START CONTROL MODULE

