Model 7000
Glow Plug Controller

FEATURES

- **Microprocessor based controller**
- **Optimum control of glow plugs**
- **Over-voltage and reverse polarity protected**
- **Short circuit protected**
- **Extends life of glow plugs**
- **Designed for heavy shock and vibration environments**
- **Wide temperature operating range**

The SSI Model 7000 Glow Plug Controller consists of an engine-mounted control module that detects engine temperature and status. When engine start is initiated it provides optimum control of the eight engine glow plugs. The controlled process includes three stages: pre-

The Glow Plug Controller consists of an extruded aluminum housing, three circuit cards, a temperature sensor, three connectors and seals. One of the circuit cards contains a microprocessor which is programmed to provide the power to each of eight glow plugs based upon a pre-determined schedule. At or below an engine temperature of 11°C (52°F) the glow plugs will be energized for a pre-determined period of time prior to engine cranking. When the engine starts, the Controller de-energizes glow plug excitation on a pre-established schedule. Failure to achieve engine start will result in a shut-down of the engine start process. The glow plugs will not be energized above an engine temperature of 11°C (52°F) except in an emergency operational situation through the Controller override function.

The Glow Plug Controller contains diagnostic circuits and logic to determine the location on the engine of one or more defective glow plugs. The location of a defective glow plug is displayed as a series of coded messages on the “wait to start” LED located at the driver’s instrument panel. The Glow Plug Controller can be adapted to a wide variety of track and wheeled military vehicles and other diesel engine applications.

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SSi TECHNOLOGY, INC.
Innovative Electronic Solutions

Specifications

- Input Voltage 18 to 32 Vdc
- Output Voltage = Input Voltage minus 0.2 Vdc
- Output Current = 2.0 amperes resistive and 1.0 ampere inductive
- Operating Temperature – 50 ˚C to + 150 ˚C
- Shock (Half-sine/3-Axis) MIL-STD-810
- Vibration (Sine/3-Axis) MIL-STD-810
- EMI MIL-STD-461A

The Markets We Serve

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