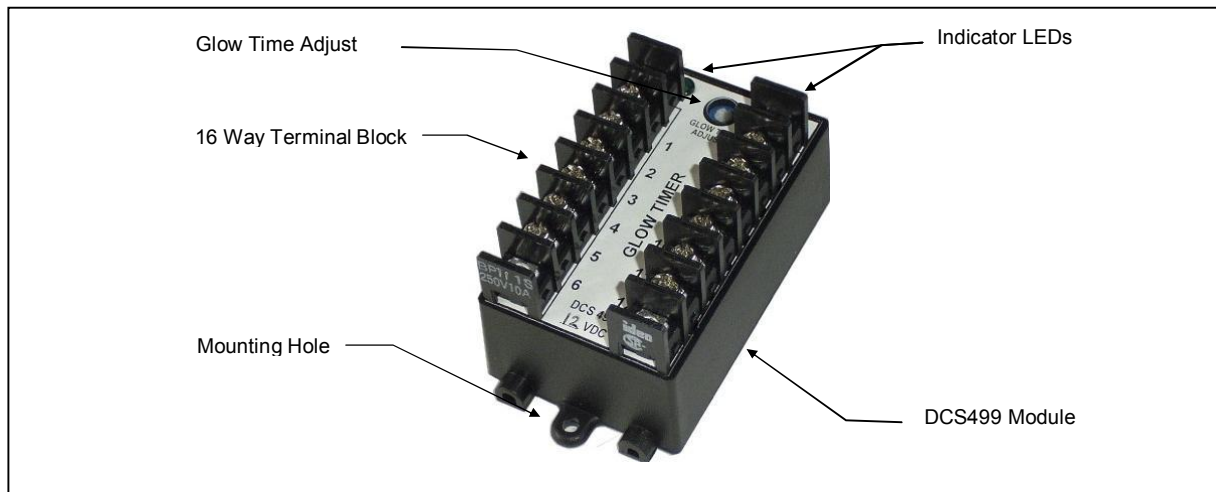


BOLEC DCS

DCS 499 GLOW PLUG CONTROL MODULE



DESCRIPTION

The DCS 499 module is a solid state delay module designed for automating the glow plug pre-heating in diesel engines with automatic start controls. The module is ideal to be used with the DCS 968 "Auto Start Controller" when glow plug pre-heating is required.

The DCS 499 module is also compatible with most auto start controllers.

The start signal is connected to the module allowing the glow plugs to be pre-heated before the auto start controller is energized.

The DCS 499 module is designed to operate from either a maintained close to run, open to stop signal or a momentary close to run, momentary open to stop type circuit.

The module has a field-adjustable time delay for glow plug pre-heating.

Two LED's are provided to assist with sequence of operation.

OPERATION

With engine control switch in 'Auto' mode the module is in stand-by mode, awaiting the start signal.

No battery power is consumed in stand-by mode. With start signal applied across terminals 2 and 5 Green LED illuminates. VE+ signal is available at terminal 12 to energize the external glow plug relay for preset time. Initial glow time is adjustable from 0-35 seconds. When the set time period has elapsed glow plug relay will de-energize and VE+ is available at terminal 11 to initiate auto start controller. Connecting terminal 10 to starter motor solenoid will provide additional glowing at crank rest time. Maximum glowing time is equal to crank rest time.

Terminal 8 and 9 are for engine running and engine fault input signals. Connecting these terminals to auto start controller, will inhibit glowing after engine has started or engine fault occurs. With engine control switch in TEST mode the DCS 499 module will initiate the glowing and starting sequence as above.

Selecting the OFF-RESET position the system is locked out and resets any faults.

SPECIFICATION

D.C. Supply:	12v (8-17v) 24v (18-32v)
Operation Current:	75 mA (approx).
Case Material:	ABS Plastic
Operating Temperature:	-10 to 60 °C
Relay Contacts:	Max 2A at 30V D.C.
Dimensions:	88l x 44w x 42h
Protection against polarization errors	

TYPICAL WIRING DIAGRAM

