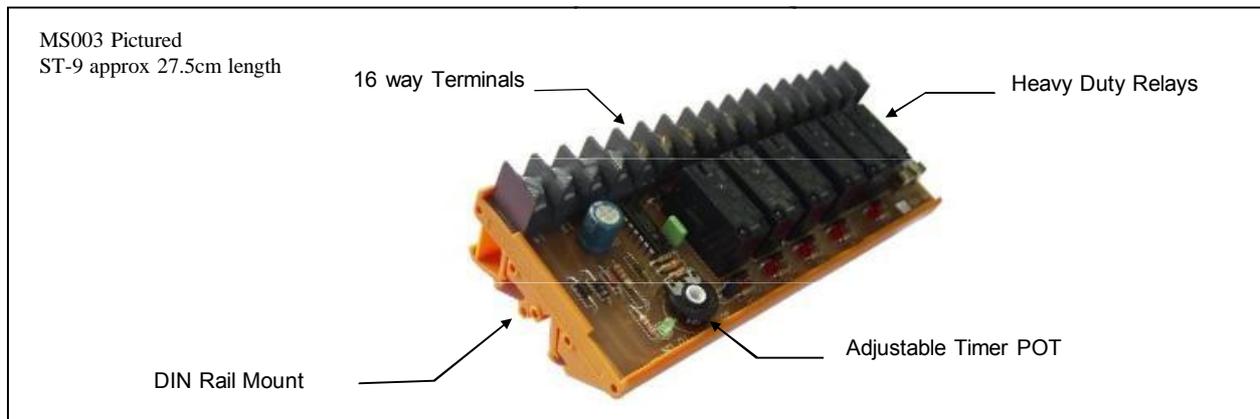


STYLRONICS – ST-9 SIX ALARM ENGINE CONTROL MODULE



DESCRIPTION

The engine control module is a compact (70 x 280mm) tropic proofed printed circuit board (urethane seal coat on both sides), utilizing Telecom approved heavy-duty control relays (approval RA 81/116) and robust connecting terminals. The module is designed for quick mounting to standard DIN or terminal rail.

Six shutdown alarms are provided on the card, inputs to be switched to –Ve.

- the first alarm (input 18, output 17) is time delayed after a start, it is usually used for low oil pressure.
- The second alarm (input 6, output 7) is instantaneous, but is disconnected when the engine is stopped. This is usually used for high engine temperature.
- The third alarm (input 8, output 9) is instantaneous. E.g. start failure.
- The fourth alarm (input 24, output 15) is instantaneous with link 'B' fitted, but has the same time delay as 'a' with the link removed. Remove the link if the alarm is used for under voltage.
- The fifth alarm has one delayed input (22) and one instantaneous input (12), with common output (13). This alarm is usually used for over and under speed.
- The sixth alarm (input 10 output 11) is instantaneous, e.g. fuel empty.

Provision is made for factory modification to change some alarms to no shut-down and/or non trip.

All alarms will latch-in electrically and will reset when +Ve is momentarily removed from terminal 14 and the indicating lamps. All alarms when activated will de-energize the run relay CR, which will remove +Ve from the fuel solenoid relay terminal 2. Also the alarm relay AR will energize, activating terminal 19 to –Ve (for circuit breaker trip or remote common alarm if required) and terminal 23 will be activated to –Ve for an audible alarm (max. load 1 amp). This audible alarm can be silenced by momentarily connecting terminal 16 to –Ve, this action also functions as lamp test. The silencing is automatically cancelled when the alarm is reset.

Terminals 20 and 21 give shut-down indication, N/O or N/C, 5 amp max. (link 'C')

For automatic start-stop control cut link 'A'. For manual control, with key switch, or push buttons terminal 5 must be energized during the 'start' cycle, to energize the control relay CR which will be latched-in as long as +Ve is connected to terminal 1 and no shut-down alarm is activated.