

MSS-200

AUTOMATIC ENGINE START/STOP CONTROL SYSTEM

DESCRIPTION

The versatile MSS-200 is an incredibly compact automatic engine start/stop controller, used primarily on stationary equipment. The highly flexible MSS-200 is fully programmable. Its 17 parameters are preprogrammed at the factory to the most commonly used parameters. However, changing the factory preset is easily accomplished by using a simple push-button binary code sequence using three buttons on the front of the unit. To protect against unauthorized changes, stored values can be pass-code protected.

When used in combination with ground contact switches, the MSS-200 can also shut down the engine due to a failure, i.e., oil pressure, temperature, alternator charge, v-belt or any other customer-defined parameter.

Applications requiring shutdown indication can use the MSS-200 in combination with the MC-6K or MC-536 shutdown systems, which informs the operator the cause of failure. The MSS-200 can also be easily integrated into one of LOFA's Aluflex™ enclosure panels.

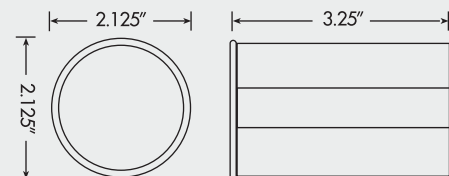


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FEATURES AND ADVANTAGES

- Automatic engine start/stop
- Fits industry standard 2-1/16" panel openings for compatibility with almost any existing instrument panel
- Durable IP 63 spray-resistant housing
- 12 and 24 volt operation
- Operating temperature -22° F to 185° F
- Designed for use in combination with widely available common ground contact switches
- Built-in audible alarm/beacon light output for extra shutdown indication
- Programmable by use of simple push-button binary code sequence
- 17 Parameters can be reprogrammed to meet each applications specific requirement
- Programmable automatic preheat with afterglow
- 2A maximum amperage capacity
- Optional relay interface converts the MSS-200's 2A out-put to 30A while simplifying installation
- Standby amperage draw
 - Zero mA in (+) control mode
 - 40 mA in (-) control mode
- Fuel savings/maintenance cost savings. The ability to automatically start and stop an engine on demand has already saved many of our customers thousands of dollars in fuel and maintenance costs.
- Flasher/audible alarm output
- Installation/programming instructions provided with each unit
- 2-year limited warranty

DIMENSIONS



Some of the programmable features of the MSS-200 include:

- Preheat duration
- Number of restart attempts
- Pause between repeated starts
- Over-crank starter motor deactivation in seconds
- Generator load switch activation
- Engine cool-down and warm-up cycle
- Solenoid type (ETR or ETS)
- Security pass-code
- Start motor disengagement by frequency



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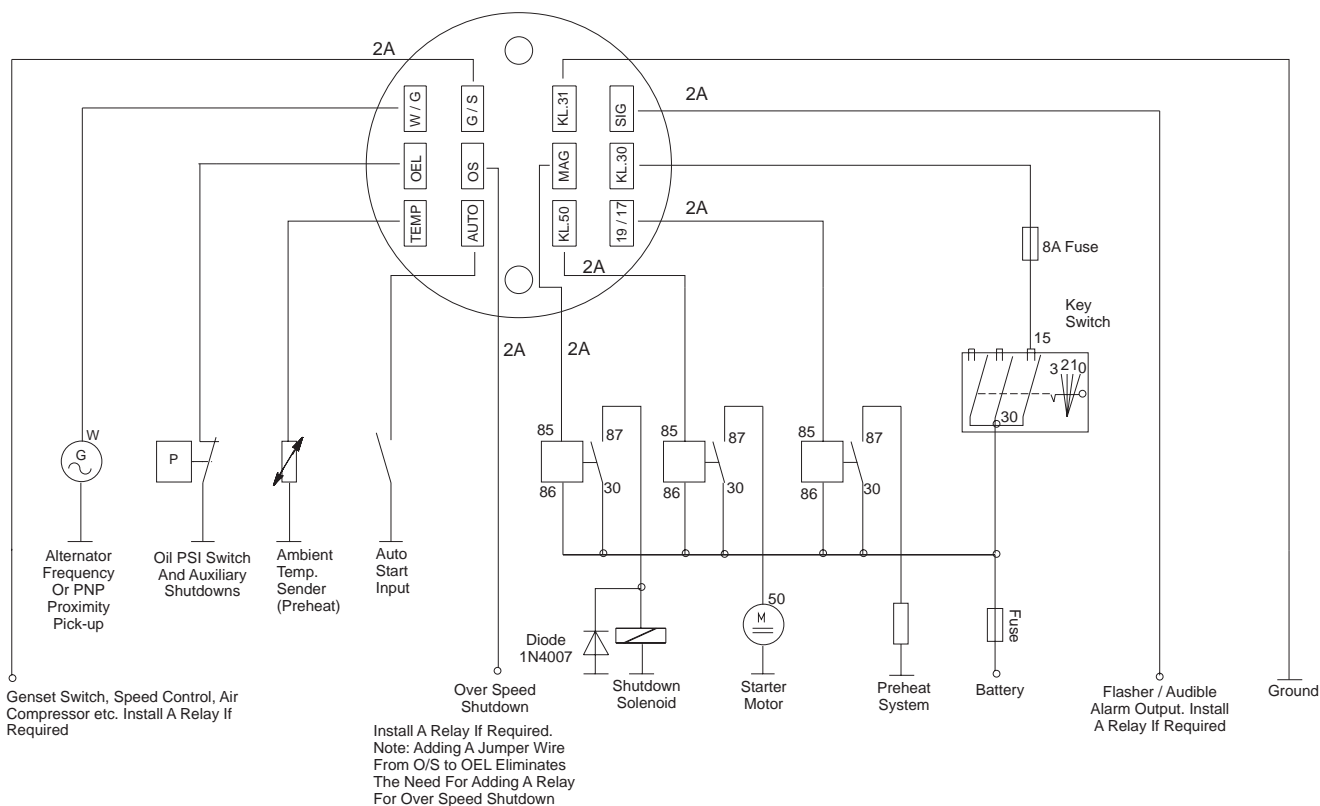
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PROGRAMMABLE PARAMETERS

- 1 Preheat time (0-60 seconds or ambient temperature)
- 2 Number of repeated starts (0-15)
- 3 Pause between repeated starts (5-75 seconds)
- 4 Over Crank (2-30 seconds)
- 5 G/S Generator load switch shutdown delay (0-75 seconds)
- 6 Engine cool-down cycle (0-900 seconds)
- 7 Engine warm-up duration (8-38 seconds)
- 8 Oil pressure switch (normally open, normally closed, or without switch)
- 9 Oil pressure switch override (1-15 seconds)
- 10 Auxiliary engine monitor/shutdown (EP-100, MC-536, MC-6K, or solo)
- 11 Starter motor disengagement by frequency (in Hz)
- 12 G/S frequency based switch to turn on electric power, air compressor, throttle control, etc. (in Hz)
- 13 Over-speed shutdown (in Hz)
- 14 Over-speed shutdown delay (1-15 seconds)
- 15 Standby mode (ground or battery + control)
- 16 Pass-code (3 numbers 0-15)
- 17 Pump mode/Generator mode selection

WIRE SCHEMATIC



NOTE:

- (1) ALL OUTPUTS OPERATE BY GROUND CONTACT
- (2) MSS-200 MAXIMUM ALLOWABLE AMPERAGE: 2 AMPS
- (3) AUTO TERMINAL MUST BE ALWAYS GROUNDED IN (+) CONTROL START MODE.