

EL240G1HS

FOR MECHANICALLY GOVERNED ENGINES

DESCRIPTION

The EL240G1HS is the most compact member of the EL240 Series and functions as a complete control system. The unique face-mountable, aluminum enclosure houses the EL240 controller and a high-current key switch, a rectangular hourmeter, as well as an option for a 2" diameter gauge.

This flexible platform for diesel engine control, monitoring and protection features LOFA's powerful First-Fault Diagnostics (FFD). After pinpointing the initial failure, FFD stores it in memory and alerts the end user via a single bright LED. First-Fault Diagnostics monitors battery charge, low oil pressure, high temperature, and up to two additional contact closure inputs. The expandable, solid-state microprocessor-based design uses high power semiconductors instead of outdated electromechanical relays to ensure reliable, high-current switching.

The drop-in face-mountable enclosure is an ideal way for machine designers to place LOFA technology directly in the equipment dash. The G1HS enclosure platform (5.7" square X 2.9" deep) allows modular expansion via a plug-and-play gauge cluster. The gauge cluster supports up to four 2" gauges in an additional drop-in enclosure to simplify system design.

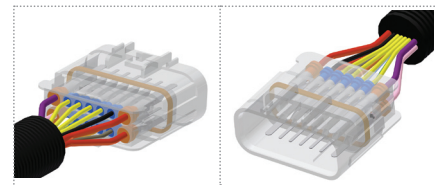
Some of the EL240 Series programmable features include:

- Automatic preheat duration
- Afterglow duration
- Failure indication with shutdown or indication only
- Normally open or normally closed shutdown switches

The standard system includes a 12" wiring harness terminating into a sealed weatherproof plug. This durable connection performs well in harsh environments and provides efficient installation of custom plug and play engine harnesses as well as standard harness extensions.



Pictured Above: EL240G1HS



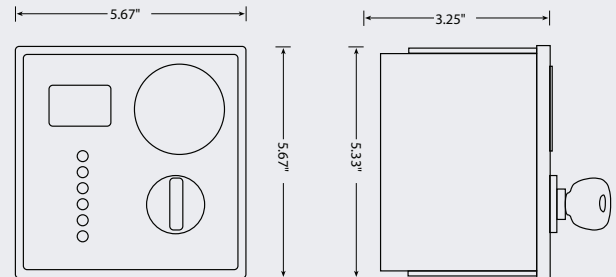
Pictured Above: DELPHI GT Weather-proof Connector, Std. 12" Harness
Other electrical connections available upon request.



FEATURES AND BENEFITS

- Engine monitoring, protection and diagnostics via First-Fault Diagnostics (FFD) for battery charge, low oil pressure, high temperature, and up to two additional contact closures
- Ultra bright First-Fault Diagnostics LED display - highly visible in direct sunlight
- Simple plug and play installation customized to the specific application allows rapid equipment completion
- Face-mountable, heavy-duty anodized aluminum enclosure designed to withstand the most extreme industrial applications
- Automatic shutdown override eliminates pushing a button during engine starting, allowing for simplified engine cranking
- Rubber key switch cover provided for wash-down when booted key is removed
- Heavy-duty IP 64 water-resistant key switch with a mechanical start-locking device to prevent unwanted engagement of the starter motor after the engine is running
- Frequency input compatible with either the alternator frequency terminal or proximity switch
- Frequency input supports magnetic pick-up if optional wiring kit is used
- Automatic preheat with afterglow controls the engine's cold starting aid when the key is turned to the run position

DIMENSIONS



SPECIFICATIONS

- Standby Current: 50 mA @ 12 VDC, 80 mA @ 24 VDC
- Operating Temperature: -40° to 185° F (-40° to 85° C)
- Key Switch: 50 A for 1 second (5% duty cycle)/12 A continuous @ 12V; 25,000 mechanical cycles
- Reverse polarity protection
- 2-year limited warranty
- Optional 24V model available

Solid State Inputs/Outputs

- Tachometer Frequency Input alternator, proximity switch or magnetic pickup (if optional wiring kit is used)
- Temperature Switch Input
- Oil Pressure Switch Input
- Two (2) Additional Switch Inputs
- Fuel Shutdown Solenoid Output (70 A for 1 second/5% duty cycle, 15 A continuous)
- Switched Battery Output (fused, 15 A continuous)
- Preheat Indication/Control (ground active)
- Battery Charge Indication/Alternator Excitation (3 A continuous output)