



PRODUCT INFORMATION

Fuel pump driver modules

- The fully sealed housing allows for both interior or exterior mounting
- Ideal for cross-platform applications to benefit from economies of scale
- Demand-responsive operation of the various DC and EC motors

PRODUCT FEATURES

Diverse module variants (including simple single-function fuel control modules) read in a low weak current duty cycle of a PWM (pulse width modulation) control signal and convert it into a PWM output signal. Complex multi-function EC motor or DC motor control modules provide several interfaces for sensors, communication and additional actuators. HELLA supports sensor-based and sensorless EC motor applications. Fuel control modules can be individualized according to specific customer requirements.

Fuel Pump Driver Module (FPDM) Function:

In electronic returnless fuel systems (ERFS), the FPDM controls fuel pressure by receiving a duty cycle signal from the Powertrain Control Module (PCM) and modulating the fuel pump's speed.

FPDM Operation: The PCM uses a Fuel Rail Pressure Sensor (FRP) for feedback and outputs a duty cycle to the FPDM to maintain the desired fuel rail pressure.

Advantages

- Improved fuel economy
- Production of over 4 million modules every year
- Global production facilities
- Demand-responsible fuel pump control improves economy and extends the engine lifetime
- Cost-efficient design based on standardized hardware and software platform
- Integration of additional functions

HELLA's fields of expertise:

- Project teams in North America, Europe and Asia
- Specialists for optimized module thermal management
- Experience in software, hardware and mechanical design
- Global production capacity

HELLA PUMP DRIVER MODULES

Product features, specifications and availability are subject to change without notice.

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