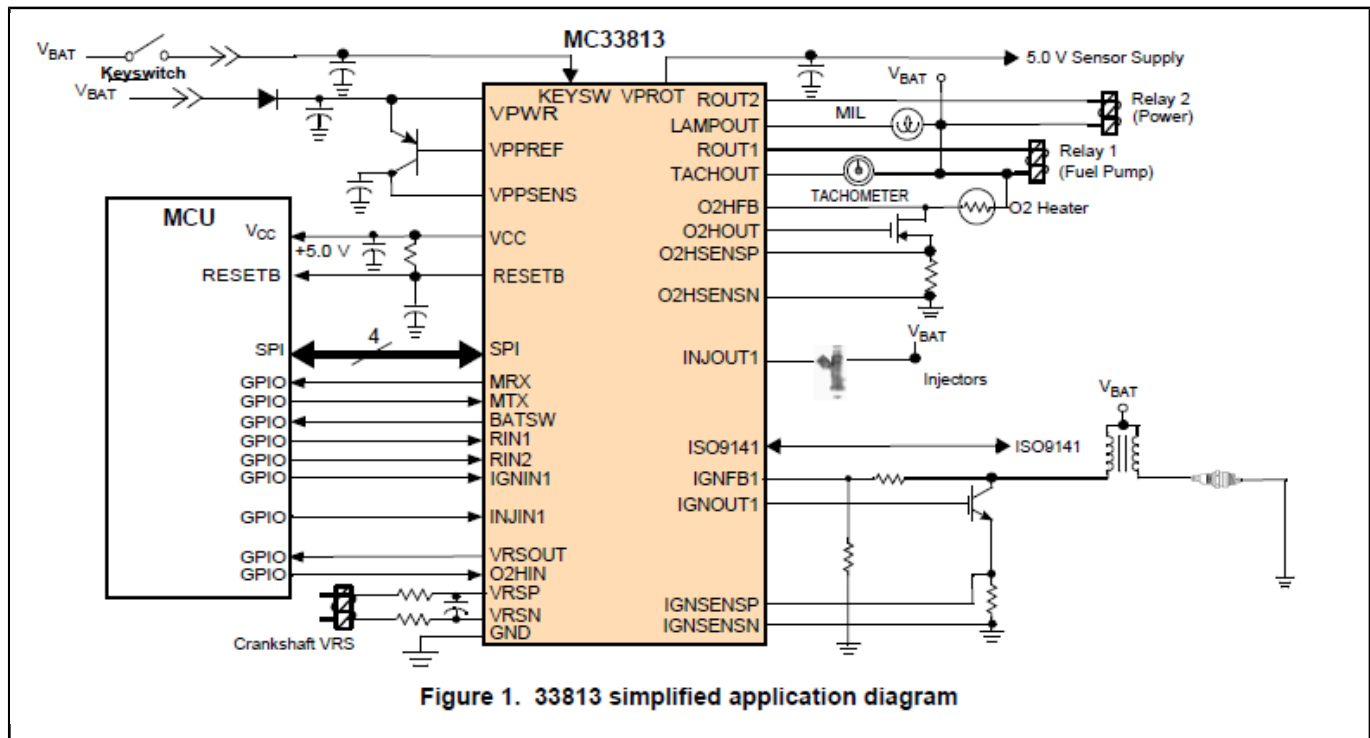# One Cylinder Small Engine Control IC

MC33813

Last Updated: Dec 24, 2025

The NXP MC33813 is an engine control analog power IC delivering a cost-optimized solution for managing one and one-cylinder engine.

- With five drivers, two pre-drivers, a 5.0 V regulator for the MCU, a protected external sensor supply, and a high level of integration, the IC offers an ideal response to contemporary market requirements.
- The innovative VRS system optimizes noise immunity under cranking conditions.
- Diagnostic and protection features present on all outputs allow applications to operate with greater safety.
- The device is packaged in a 48 pin LQFP with an exposed pad for a minimum space footprint.

One Cylinder Small Engine Control IC Block Diagram

Figure 1. 33813 simplified application diagram

View additional information for One Cylinder Small Engine Control IC.

Note: The information on this document is subject to change without notice.