Southwest Southwest Research Institute's® (SwRI®) low side driver BOT™ (LSD-BOT) is an advanced driver capable of driving eight loads through low side switching. The LSD-BOT can be configured for solenoids, injectors, and ignition coils. Logic level inputs with protection allow any controller to drive high current low devices.

The LSD-BOT can drive high impedance injectors, ignition coils or solenoids from a controller’s logic level outputs regardless of whether the controller has high current low side drivers to actuate injectors, ignition coils, or solenoids.

Each SwRI BOT™ system is highly customizable to meet unique customer needs. The standard configuration in this data sheet is the expandable foundation for your prototyping solution.

**Description**
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**Features**
- Always environmentally protected
- Eight channels
- Sealed Deutsch 24-pin connector
- Test cell and vehicle mountable

**Outputs**
- 7A continuous
- Ignition coil
- Solenoid
- Injector

**Inputs**
- Logic level input
- Input protected to 16V

**Configurations**

**Solenoid/injector configuration**
- 7A continuous
- 30A peak
- Linear current limitation
- Thermal shutdown protection
- Integrated overvoltage clamp

**Ignition configuration**
- 500mJ self-clamped inductive switching capability
- 450V overvoltage clamp
- High I/O count
- Test cell and vehicle mountable

**Custom configuration**
- Mixed outputs
- Low side drive input
- Push-pull input