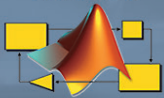




S090 Solenoid & Motor Driver

Engineering Development Module

MATLAB
Enabled



MathWorks Partner

Capabilities

- Drive 8 solenoids up to 10A each
- Solenoid PWM control
- 4 low side and 4 high side channels
- Two 5V sensor supplies 1A each
- Drives 1 brushed & 1 brushless DC motor up to 40A
- Dual -range current feedback from all output channels for monitoring or data logging

Benefits

- Expands the function of an existing master controller
- Enables rapid prototype development of higher power systems
- Supports controls development for heavy duty actuators
- Evaluate loads and actuations for production circuit optimization
- Cost effective support for fleet trials of new systems

Applications

- PMW controlled actuators and/or DC motors
- Motor control
- Hydraulic pump and valve control
- Fuel delivery system control
- Transmission test control
- Electronic throttle control
- VVT actuators
- Aftertreatment pumps and injectors

Specifications

POWER		PHYSICAL	
Supply Voltage	9V to 18V	Dimensions (mm)	236 x 196 x 46 (L x W x H)
Sensor Supply	2 x 5V±3% @ 1A	Connector	2 x 46 pin
INPUTS		Enclosure	Aluminum
Digital	19	Location	Chassis mount
BLDC Motor Direction / Speed / Stop	3	Environmental Protection	IEC 60529 (IP65 - sealed)
		ESD	SAE J1113-13
Brushed Motor Direction / Speed / Stop	3	Environmental Protection	IP67
		Operating Temperature	ISO 16750-4 (-40°C to 85°C)
		OUTPUTS	
High Side Solenoid Control Command	4	Brushed DC Motor Drive	1 x 40A H-bridge*
Low Side Solenoid Control Command	4	BLDC Motor	1 x up to 40A*
		3-Phase Sensored Brushless DC Motor Drive	1 x up to 40A*
High Side Solenoid Enable Command	2	PWM High Side	4 x up to 10A*
BLDC Hall Sensor Inputs	3	PWM Low Side	4 x up to 10A*
		Temperature Indication	2

*Total current for all outputs not to exceed 40A continuous.

Versatile solenoid and motor drive slave controller to support engineering development programs for electrification of vehicular systems. Designed for any system that uses PWM controlled actuators (valves, solenoids) and/or DC motors (brushed, brushless).

- Designed to meet the needs of development engineers
- Aluminum automotive style sealed housing
- Proven sealed automotive connectors
- Robust electronics circuits suitable for an on-vehicle test environment
- Customizable circuitry

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sales@accuratetechnologies.com
www.accuratetechnologies.com

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