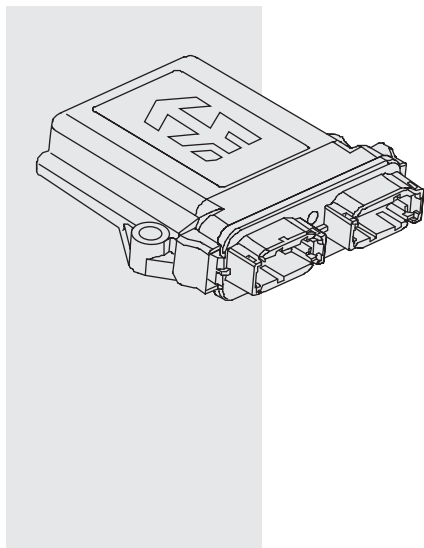


EVDR6 Six-Valve Driver, Universal Input, w/J1939,



FEATURES

- Microprocessor based control (standard software or OEM software on request).
- Standard hardware and software adapts to many applications.
- Robust 9 to 36VDC power supply interface with reverse polarity protection.
- Six on/off outputs capable of driving 5 amps each.
- Two analog configurable inputs: 5V, 20mA, PWM, Frequency/RPM, or Digital.
- Three digital configurable inputs: High, Low, or PWM
- Thermal overload and overvoltage protection provided.
- Rugged IP67-rated packaging with IP69K-rated plug-in connections.
- Operational from -40 to 85°C (-40 to 185°F).
- One CAN J1939 port
- CAN for networking capability, user configuration and diagnostics.

DESCRIPTION

The EVDR6 valve driver provides precise, repeatable control of six on/off solenoid valve coils that draw up to 5 amps each. It also accepts two analog and three digital inputs. CAN bus communications offer control system networking capability and user configuration.

This versatile, multi-function controller is suitable for a wide range of heavy duty industrial, marine, and mobile off-highway equipment applications, such as transmission controls, vehicle traction controls, and drive-by-wire control systems.

RATINGS

POWER REQUIREMENTS:

Power Required: 9 to 36 VDC
Operating Current: 8 amp maximum load
Non-Destructive Voltage: -32 to +80 VDC

PROCESSING and MEMORY:

Motorola Microprocessor: MC56F8346
Flash ROM: 128 KByte
SRAM: 4 KByte
EEPROM: 8 KBytes

All input and output characteristics are configurable with ACP (Application Configuration Programmer).

COMMUNICATION I/O:

CAN J1939 — Standard
CANopen — Consult Factory

INPUTS:

Analog: 2, Configurable as:
0 to 5VDC; 0(4) to 20mA; PWM, 0 to 100%, 5KHz maximum;
Frequency/RPM, 1 to 65 KHz; 16-bit counter; Digital-High
Digital: 3, Configurable as:
Digital, High/Low; PWM, 0 to 100%, 5KHz maximum;
Frequency/RPM, 1 to 65KHz; 16-bit counter

OUTPUTS:

High Side ON/OFF Drivers: 6
Drivers can be configured for On/Off, Timed, Pulsed, Duty Cycle

ENVIRONMENTAL RATINGS:

Operating Temperature Range: -40°C to +85°C
Storage Temperature Range: -50°C to 125°C
Humidity Tolerance: 115% of nominal system voltage at 90% relative humidity over operating temperature range
Salt Spray Tolerance: 115% of nominal system voltage with 5% salt spray for 48 hours at 35°C
Vibration (Shock-isolated components): 7.4 Grms random vibration from 24 Hz to 2 KHz in three orthogonal planes
Moisture Leakage (sealant pressure tolerance): ±0.35 bar (5 psi) against water and water vapor; immersion resistant in 3 ft. (1 meter) of water; meets IP67 standards.
Radiated Immunity: 10 V/M; 80 MHz to 1.0 GHz
Electrostatic Environment: Zero damage during exposure to electrostatic painting process (IEC 61000-4-2)

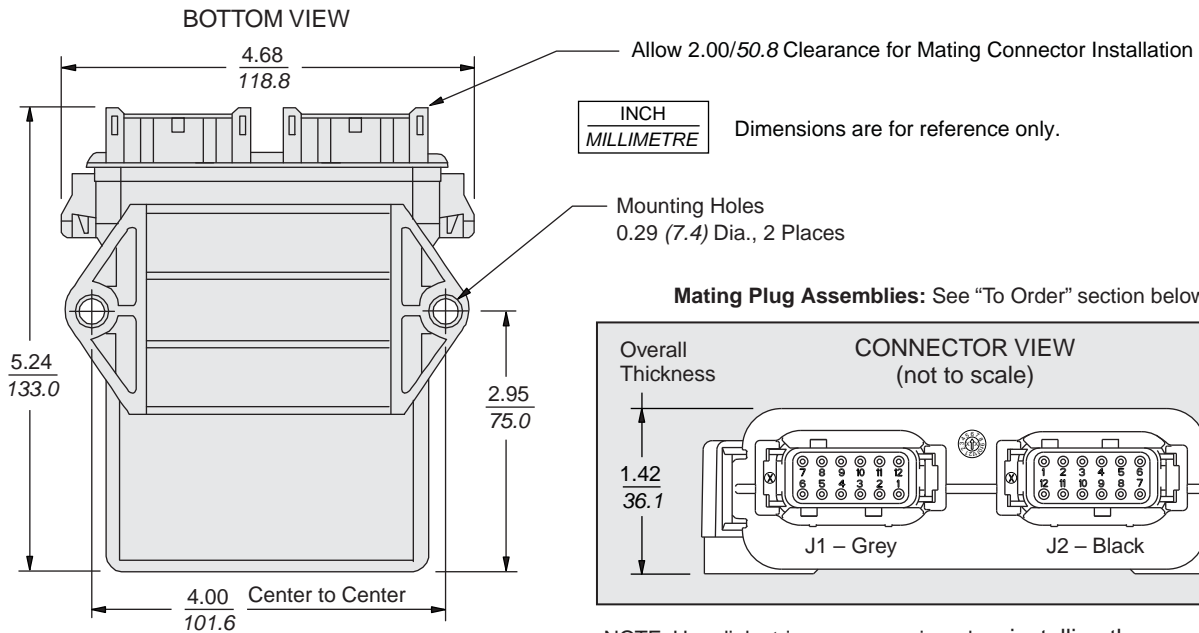
Materials:

Housing: Thermoplastic with silicone elastomer seals.
Contacts: Tin-plated copper alloy.

PWM and CAN Inputs

EVDR6

DIMENSIONS



NOTE: Use dielectric grease on pins when installing the connectors.

PINOUT

Connector J1 – Grey

Pin	Function
1	Ground 6
2	Ground 5
3	Ground 4
4	Ground 3
5	Ground 2
6	Ground 1
7	Output 1
8	Output 2
9	Output 3
10	Output 4
11	Output 5
12	Output 6

Connector J2 – Black

Pin	Function
1	BATT +
2	CAN Hi
3	Factory Use
4	Factory Use
5	Input 1 – Analog
6	Input 2 – Analog
7	Ground
8	Input 5 – Digital
9	Input 4 – Digital
10	Input 3 – Digital
11	CAN Lo
12	BATT –

TO ORDER

Controller Model EVDR6; Part No. 4000255

Connector Kits: J1, DTM06-12A Kit, Grey: 4001976
J2, DTM06-12B Kit, Black: 4001977

Configuration Kit

Includes Converter, Cable and Software: 4000250

CAN Flashing Cable: Part No. 4000696