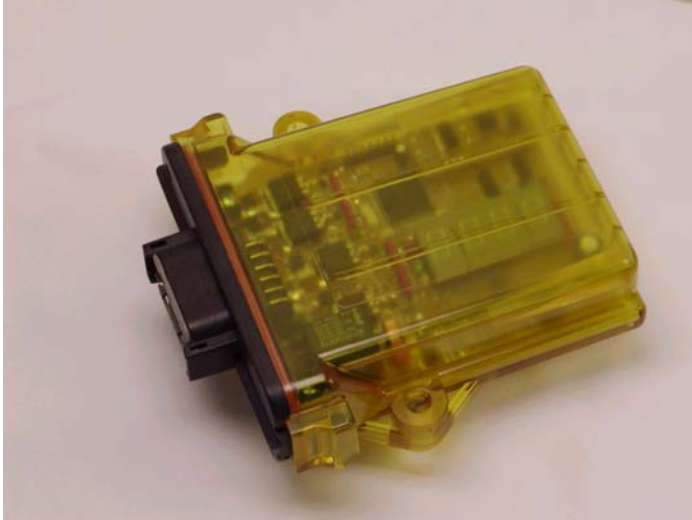


AL101 Joystick Controller



- ❑ **Field programmable**
... user interface allows for in-vehicle setup and diagnostics
- ❑ **Direct electro-hydraulic drive**
... two axis current controlled electro-hydraulic drivers
- ❑ **OEM platform**
... vehicle operation, analog-digital inputs, fuseless design, sealed enclosure

The AL101 is an electro-hydraulic controller suited for mobile equipment. This design platform is ideal for new applications. The AL101 offers four current controlled pulse width modulated outputs, ideal for driving proportional flow control valves. In addition, are four inputs that can be software configured as either digital or analog input.

One key feature is the Plow **Float** mode. Operated by a switch on the joystick handle the plow will **float** on the road surface. The AL101 also accepts a **Trigger** switch as a dead man switch. No valve coil drive is allowed unless the trigger switch is active.

The AL101 has a see-thru housing for viewing four digits and three magnetic switches for reading and changing various control parameters. From the enclosure face the installer can select program features, enter settings, perform calibrations or diagnostic tests. Using a flash memory based micro-controller with; the AL101 can accommodate field upgrades using a simple handheld terminal. The housing in a environmentally sealed ABS enclosure with an integral 12-pin connector, making it well suited for mobile vehicle applications.

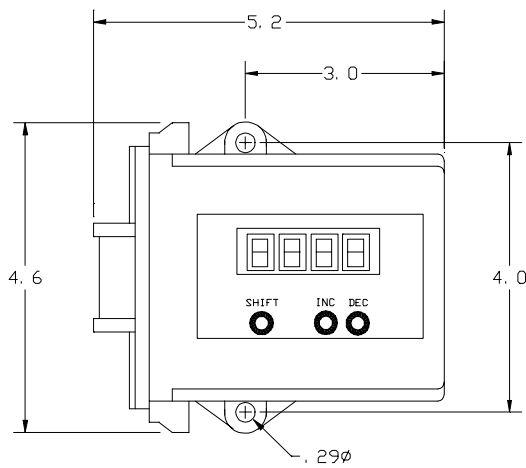
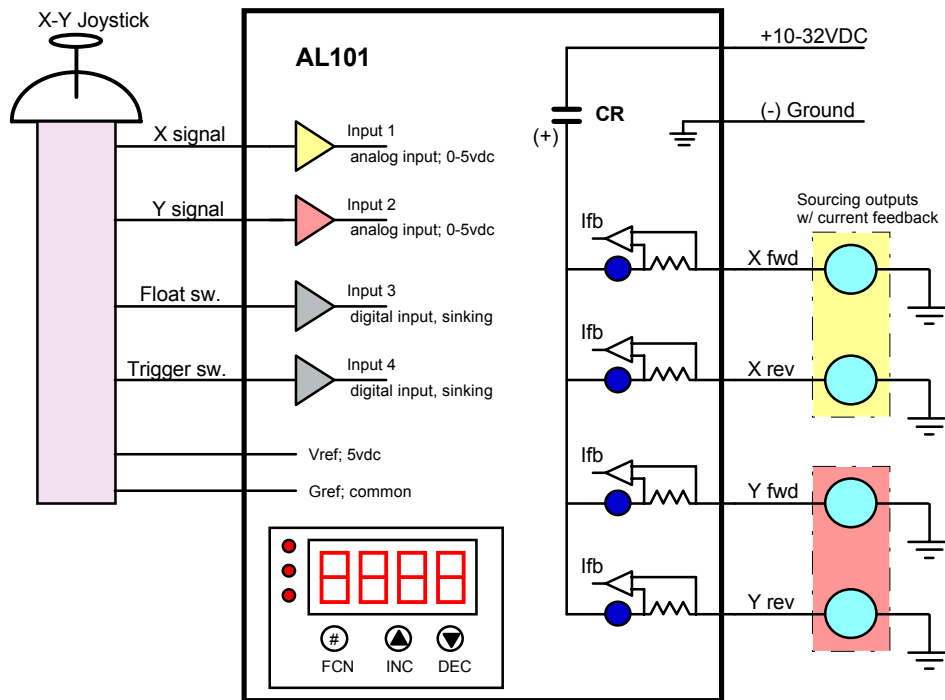
Specifications:

- ◆ 10-32 vdc, mobile vehicle power ready, transient and reverse polarity protected
- ◆ Operating temperature; -40 to +85 degC
- ◆ (4) PWM current controller sourcing outputs, 0-2500 milliamps each, fuseless design
- ◆ (4) configurable inputs; 10bit, 0-5vdc analog input or digital input for either sink or source
- ◆ Sealed enclosure with integral 12 pin connector, see-thru housing
- ◆ User interface, four digit display w/ three magnetic pushbuttons

AL101E1A

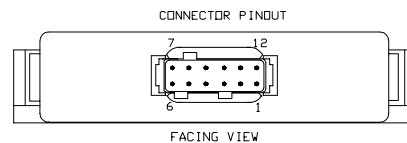
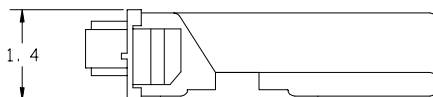
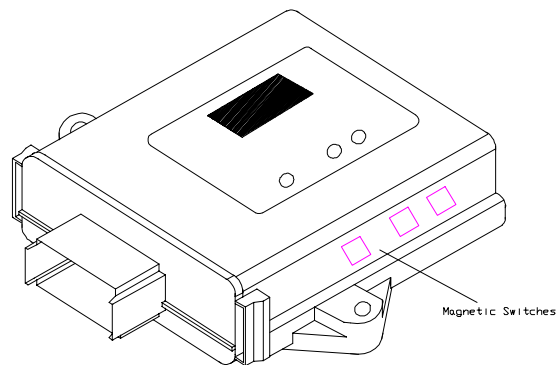
AL101 Joystick Controller

Block Diagram



ENCLOSURE FEATURES

- ENVIRONMENTALLY SEALED AGAINST MOISTURE
- NON-CORROSIVE, THERMOPLASTIC HOUSING
- SHOCK & VIBRATION RESISTANT
- CONNECTOR KEYING OPTION AVAILABLE
- BUILT IN OPERATOR INTERFACE
- 4 DIGIT DISPLAY, MAGNETIC SWITCHES



ALL DIMENSIONS IN INCHES