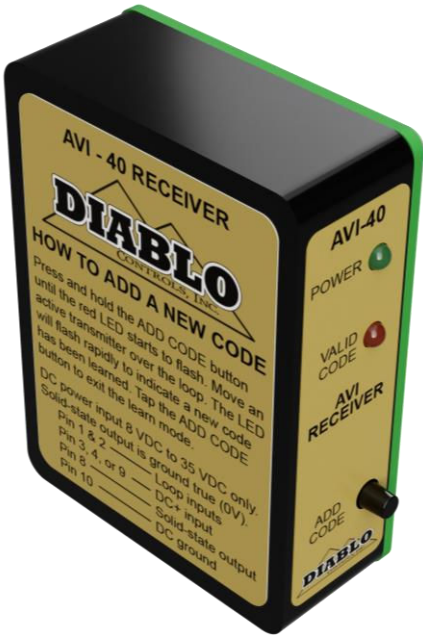


# AVI-40

## Automatic Vehicle Identification Quad Code Receiver



The Diablo Controls AVI system consists of an AVI transmitter and an AVI receiver.

The transmitter is mounted to the underside of a fire engine, police car, or other vehicle. The transmitter continuously transmits a coded signal.

When this vehicle approaches a gated area, the code is received by a loop buried in the ground ahead of the gate or barrier. The receiver decodes the signal from the transmitter to determine if the transmitted code matches any of the programmed codes stored in the receiver. If a match is found, a relay contact is closed, and a red LED is illuminated indicating a valid code is being received. This signal is then passed on to a gate controller, which automatically opens the gate or performs some other security function.

All Diablo Controls AVI receivers are shipped pre-programmed with the requested code(s). The receiver has the capability of storing up to four codes. If the unit is asked to learn a fifth code, it will be ignored.

The green Power LED will be on solid to indicate the unit is powered.

The red Valid LED will turn on when the unit is receiving a valid code. If the red Valid LED is blinking slowly then this unit is un-programmed and has no codes stored to validate. All units are shipped from the factory with the requested code(s) already programmed within the unit.

The unit can store up to four different codes. To determine how many codes are already stored within the unit, simply tap the front pushbutton. The red LED will blink once for every code stored within.

### Features

- ❖ Compatible with existing AVI systems used in Southern Nevada Emergency Vehicle Access Systems.
- ❖ Over 19,000 codes to choose from.
- ❖ Can be programmed to accept up to 4 different codes.
- ❖ No switches to set.
- ❖ Operates on 8 to 35 volts DC.
- ❖ Can be field programmed to add new codes.
- ❖ Small profile, perfect for many installations.
- ❖ Responds to transmitters made by Detector Systems, IDC, US Traffic, and Reno A&E.

### SPECIFICATIONS

**LED Indicators:** The green Power LED will be on solid to indicate the unit is operating and powered. The red Valid LED will turn on when the unit is receiving a valid code. If the red Valid LED is blinking slowly then this unit is un-programmed and has no codes stored to validate.

**Outputs:** Solid-state (open collector) output. 30 mA maximum current sink - transient voltage protected.

- Operating Voltage:** 8 - 35 volts DC
- Operating Temperature:** -35°F to 165°F (-37°C to 74°C)
- Dimensions:** 2.400" H x 0.800" W x 2.250" D  
61 mm H x 20 mm W x 57 mm D
- Connector:** 10-position Molex Type 09-48-1104  
Mates with many female PCB 0.156" pitch headers in use by some access control devices and gate operators.

Pin	Function
1	Loop
2	Loop
3	DC + (8V to 35V)
4	No connection
5	No connection
6	No connection
7	No connection
8	Output A
9	DC + (8V to 35V)
10	DC Common



AVI-40 Web Page

For current information on all of our products. Specifications are subject to change.

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