

AVI-40

Automatic Vehicle Identification Receiver



Features

- ❖ Over 19,000 codes to choose from.
- ❖ Can be programmed to accept up to 4 different codes.
- ❖ Operates on 10 to 30 volts DC.
- ❖ Can be field programmable with the "Learn" pushbutton.
- ❖ No switches to set.
- ❖ Small profile, perfect for many installations.
- ❖ Responds to transmitters made by Detector Systems, IDC, US Traffic, and Reno A&E.

The Diablo Controls Automatic Vehicle Identification (AVI) system consists of a transmitter mounted to the underside of a fire engine, police car, or other vehicle. The transmitter continuously transmits a coded signal when power is applied. When this vehicle approaches a gated area, the code is received by a loop buried in the ground ahead of the gate or barrier and passed on to the receiver.

The receiver unit is the "smarts" of the system. If the transmitted code matches any of the pre-programmed codes stored in the receiver, an output is activated and a red LED is illuminated indicating a valid code is being received. This signal is then passed on to the gate controller, which automatically opens the gate or performs some other security function. A separate Diablo Controls vehicle detector is available that will allow the AVI receiver and vehicle detector to both use the same inductive loop.

All Diablo Controls AVI receivers are shipped in the un-programmed mode. Before the receiver can be used for AVI, it must first learn the acceptable codes. To program a new code, the transmitter transmitting this code must first be energized and placed over the loop. Press and hold the "Learn" button until the red Valid LED starts blinking fast. Then simply release the button. This will store the new code in memory. Once this new code is received and learned, it will now activate each time this code is received.

The receiver has the capability of erasing all stored codes. This normally only used when the device is moved to a new location using different codes.

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 transistor collectors) for both detect and fail outputs. 30 mA maximum current sink - transient voltage protected.

Operating Voltage: 10 - 30 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 + (10V to 30V)
4	No connection
5	No connection
6	No connection
7	No connection
8	Output A
9	DC + (10V to 30V)
10	DC Common

Visit our Website at www.diablocontrols.com for the most current information on all of our products. Specifications are subject to change.



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