

AVI-100-R Receiver

A New Dual Code AVI Receiver



Features

- Compatible with existing AVI systems used in the Southern Nevada Emergency Vehicle Gate Access System.
- Compatible with manufacturers Detector Systems, IDC, US Traffic, and Reno A&E
- Can be programmed to activate up to 2 different codes out of over 19,000 codes
- Operates on 10 to 30 volts AC/DC or 117/230 VAC
- Can be field programmed with the "Learn" pushbutton
- No switches to set; Responds to transmitters made by Detector Systems, IDC, US Traffic, and Reno A&E

Overview

The Diablo Controls AVI system consists of an AVI transmitter 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 is the "smarts" of the system. It receives the coded message coming from a transmitter. If the transmitted code matches the pre-programmed code stored in the receiver, 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.

Learning

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 storing up to two codes. If the unit is asked to learn a third code, the oldest code is discarded.

To erase all the stored codes, disconnect the MS connector from the unit. With the pushbutton firmly pressed, reconnect the MS connector. Continue to press the button in until the red Valid LED begins to blink slowly. Release the pushbutton. There are now no codes stored in memory and the unit is ready to learn new codes.

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.



Pros Who Know Trust Diablo

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Ordering Information

AVI-100-R-xxx

xxx = LV = Low voltage model 10 to 30 volts DC

xxx = 117 = 117 volts AC

xxx = 220 = 220 volts AC

Connector

Removable 10-position MS

Pin assignments

A – Power common

B – AVI output relay (N.O. – closed for valid ID)

C – Power in (+10 to 30 VDC) or (117/220 VAC)

D – AVI loop input

E – AVI loop input

F – AVI relay common

G – No connection

H – Chassis ground

I – No connection

J – No connection

Size

Height: 3.5" Width: 2.3" Depth: 4.25"

Operating Temperature

-35°F to 165°F (-37°C to 74°C)

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