

AVI-222

Automatic Vehicle Identification Two Channel, Rack Mounted Receiver



The AVI-222 Automatic Vehicle Identification (AVI) Receiver is a two channel card-rack type receiver and fits in a standard 222 rack. It detects and identifies vehicles equipped with Diablo Controls AVI transmitters. The AVI-222 uses two loops (one per channel) installed in the roadway surface to receive the transmitter's code. Each receiver channel operates independently and identifies all 19,683 codes. Each channel can be programmed to set any code as either valid or invalid. Valid codes activate the appropriate output and LED Indicator.

Features

- ❖ Two channel, rack mounted, AVI receiver compatible with CalTrans 222 vehicle detector pin out.
- ❖ Compatible with transmitters made by Detector Systems, IDC, US Traffic, and Reno A&E.
- ❖ Receiver utilizes the LADOT2070 "Loop Comm" protocol. Custom protocols available.
- ❖ DIP switch addressable.

USER INTERFACE

ON / OFF Switch: Each channel has a front panel switch that will enable or disable the AVI receiver for that channel.

Valid LED: Each channel has a front panel green LED that indicates the detection of an AVI code that has been programmed as valid.

Fault LED: Each channel has a front panel red LED that indicates an open circuit loop condition.

TX LEDs: Each channel has a front panel red LED that indicates when that channel is transmitting data over the serial communications port.

RX LED: There is a front panel green LED that indicates when the unit is receiving data over the serial communications port.

Address: A 4-position DIP switch located on the PC board is used to select one of sixteen possible communications addresses.

Comm Port: There is a front panel mounted DB-9 connector that allows data to be communicated to and from external equipment. Currently, the AVI-222 receiver utilizes the LADOT2070 "Loop Comm" protocol. Other protocols are available upon request.

SPECIFICATIONS

Outputs: Optically isolated, solid state outputs capable of sinking 30 milliamps. 40 VDC maximum pull-up voltage on outputs.

Power: 10 to 30 VDC, 160 milliamps maximum.

Size: 4.500" H x 1.120" W x 6.875" D

Weight: 6.0 oz.

Pin	Function
A	Power common
B	DC Voltage
C	No Connection
D	Channel 1 Loop
E	Channel 1 Loop
F	Channel 1 SS Output + (Collector)
H	Channel 1 SS Output - (Emitter)
J	Channel 2 Loop
K	Channel 2 Loop
L	Chassis Ground
W	Channel 2 SS Output + (Collector)
X	Channel 2 SS Output - (Emitter)

Ordering Information

AVI-222 There is only one version of this product.

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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