

DSP-6LP Vehicle Detector

Ultra Low Power Solar Friendly Plug and Play "Micro" Detector

OPERATION

The DSP-6LP vehicle detector is designed for solar powered gate applications. This detector will operate on any voltage from **10 to 30 Volts AC or DC** and draws approximately 1 milliampere while waiting for a car. The power LED winks continuously once per second to indicate the detector is operating in the low power mode. The DSP-6LP detector beats all competition for reliability, simplicity, and "no car" current consumption.

This series of Diablo's detectors are covered by United States patent number US 7,132,959 "Non-Interfering Vehicle Detection". These detectors are virtually cross-talk free in most applications.

Working on battery-powered and other parking and access control loop applications, the DSP-6LP is preset to the normal sensitivity level used in parking/access control applications, and tunes itself to the best operating frequency.

This micro-sized detector will automatically adjust its sensitivity level when used on different sized loops. Environmental conditions are constantly compensated with the DSP-6LP's *HYPERTRACK* software.

FEATURES

Loop Size - Works on any in-ground inductive loop from 20 to 1200 mH.

Indicators - Separate Power and Detect LED's. The green Power LED will wink continuously once per second under normal operation. The red Detect LED will turn on solid for a vehicle.

Sensitivity - Automatic - compensates for large loops and large lead-ins.

Output Ratings - Single output, 1 amp relay at 30 VDC Resistive - The relay common, NO, and NC contacts are available.

Ordering Information - DSP-6LP standard version.



Power - 10 to 30 Volts AC or DC. Approximately 1 mA (no car and all loop sizes) and less than 25 mA with a car on the loop.

Size - Height: 1.52" Width: 2.9" Depth: 1.56"

Connector - Removable 7-pin terminal block. Pin assignments are shown below - from left to right:

- 1 - Relay (NC) (opens for detect)
- 2 - Relay Common
- 3 - Relay (NO) (closes for detect)
- 4 - Power Common
- 5 - Power in (10 to 30 Volts AC or +DC)
- 6 - Loop
- 7 - Loop

Operating Temperature -35°F to 165°F (-37°C to 74°C)



Stuck in traffic for over 30 years!

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