

DSP-6LP Vehicle Detector

Ultra Low Power Plug and Play "Micro" Detector

OPERATION

The DSP-6LP vehicle detector has been specifically designed for solar powered gate applications. This detector will operate on any voltage from **10 to 30 Volts AC or DC** and draws less than 2 milliamperes while waiting for a car. The power LED blinks continuously once per second to indicate the detector is operating in the low power and fail secure mode. The DSP-6LP detector has all of the same features as our standard DSP-7 but beats all competition for reliability, simplicity, and "no car" current consumption.

The detector's small size and lack of any switches or dials, becomes the industry's first solar powered "Plug-and-Play" vehicle detector.

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 *HYPETRACK* software. The DSP-6LP's inherent noise filtering algorithms allow it to work reliably in any electrical situation.

FEATURES

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

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

Connector - Removable 7-pin terminal block.

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

Loop Failure - The green power indicator flashes slowly if the loop circuit is open and quickly if the loop circuit is shorted. This detector operates in fail secure mode and will



not output a "Detect" for either of these loop failed conditions.

Power - 10 to 30 Volts AC or DC. Approximately 1.5 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 - 7 position 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)

Ordering Information - DSP6LP standard version.



Stuck in traffic for over 30 years!

Phone: (866) 395-6677 (Toll Free Sales)

Phone: (925) 837-1884 (Technical Help)
Web Site: www.diablocontrols.com