

DSP-7 Vehicle Detector

A New Plug and Play "Micro" Detector

OPERATION

The DSP-7 detector adds yet another new dimension of simplicity to vehicle detectors. This detector has been specifically designed to handle parking, drive-through and access control applications and operates on any voltage from **10 to 30 Volts AC or DC**.

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.

The DSP-7 is preset to the normal sensitivity level used in parking/access control applications and tunes itself to the best operating frequency. It has built-in sensitivity compensation if the installation should have very large loops or long lead-in runs.

FEATURES

Loop Size - Works on any in-ground inductive loop from 20 to 1500 μ H.

Indicators - Separate Power/Fail and Detect LEDs.

Detect Memory - Power interruptions of short duration are ignored. If power fails for approximately 1½ seconds or less the detector "remembers" a vehicle.

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

Loop Failure - The green power indicator flashes twice per second if the loop circuit is open and 10 times per second if the loop circuit is shorted. This detector operates in the fail safe mode and will output a "Detect" for either of these loop failure conditions. **This "Fail Safe" detector should always be used on "safety" loops.**



Power - 10 to 30 Volts AC or DC, 25 mA max.

Outputs - Both N.O. (closes for detect) and N.C. (opens for detect) outputs. (1 amp max.)

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

Connector - Removable 7 position terminal block. Pin assignments are:

- 1 - Output relay (N.C. - opens for detect)(1 amp max)
- 2 - Output relay common
- 3 - Output relay (N.O. - closes for detect)(1 amp max)
- 4 - Power common
- 5 - Power in (10 to 30 Volts AC or +DC)
- 6 - Loop input
- 7 - Loop input

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



Stuck in traffic for over 30 years!

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