

DSP-10 Vehicle Detector

The Only Loop Detector You Will Ever Need!

FEATURES

Loop Size - Works on any in-ground inductive loop from 20 to 1000 uH.

Fail Safe or Fail Secure Operation - Can be easily changed to either mode in the field.

Power Brownout Call Memory – Power interruptions of short duration are ignored. If power fails for approximately three seconds or less the DSP-10 “remembers” a vehicle.

Intelligent Power Protection – The DSP-10-LV is protected from damage if plugged into a higher voltage. No need to change a fuse or reset a circuit breaker, simply plug the detector into the proper voltage and it works.

Indicators - Separate Power/Fail and Detect LEDs.

Compact Size - Industry standard 11 pin connector in a small plastic case.

FRONT PANEL SELECTABLE SWITCHES

Sensitivity - Ten sensitivity settings.

Frequency – Automatically tunes within one of four operating ranges.

Outputs - Two separate relay outputs with features that are front panel programmable as follows:

Output A - Main detection output. Can be modified by delay and extension. Factory set to be fail safe. Fail mode operation is easily changeable by internal jumpers.

Output B - Can be set to one of the following:

- 1) True presence (no extension or delay)
- 2) Pulse on vehicle entering loop
- 3) Pulse on vehicle exiting loop
- 4) Loop Fail output

Sensitivity Boost - Can be used in special applications to insure complete detection of high-bed vehicles.

Hold time - Normal or extended hold time is selectable.

Loop failure - If the loop fails (opens or shorts) the power indicator flashes. Output B can also indicate this condition if desired (see above). The option to “remember” an intermittent loop failure is also provided.

Delay - Can be selected to ignore fast moving vehicles over the loop.

Extension - Extends a call for slow moving vehicles.



OPERATION

The DSP-10 vehicle detector has been specifically designed to handle all parking, drive-through and access control applications.

Working on virtually any size loop, the DSP-10 automatically tunes itself to the best operating frequency. Environmental conditions are constantly compensated with the DSP-10's *HYPERTRACK* software. The DSP-10's inherent noise filtering algorithms allow it to work reliably in any electrical situation.

It can be used as either a safety loop or free exit loop detector. With the flexibility to be either “fail safe” or “fail secure,” it is the only parking detector you will ever need.

The DSP-10 is available in three voltage ranges:

DSP-10-LV	10 to 30 Volts, AC or DC
DSP-10-117	117 Volts AC
DSP-10-230	230 Volts AC

With its compact size, front panel switch features, and built-in flexibility the DSP-10 is the most “user friendly” detector on the

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