

# DSP-40S Vehicle Detector

*A New Plug and Play "Micro" Detector  
All this and a 5-Year Warranty too!*

## OPERATION

At last a plug-in detector which will operate on any voltage from **10 to 30 Volts AC or DC**. The DSP-40S detector will add a new dimension of simplicity to your plug-in detector requirements. This patent pending detector has been specifically designed to handle parking, drive-through and access control applications where solid-state outputs are required for both the "Detect" and the "Fail" outputs.

This vehicle detector incorporates all of the quality features of our other detectors while eliminating the many switch options that are confusing and not necessary for most applications. The DSP-40S detector does have the flexibility of changing the sensitivity level if necessary. (See Sensitivity below)

## FEATURES

**Loop Size** - Works on any in-ground inductive loop from 20 to 1500  $\mu$ H.

**Indicators** - Separate Power/Fail and Detect LEDs.

**Detect Memory** - Power interruptions of short duration are ignored. If power fails for approximately 1 1/2 seconds or less the detector "remembers" a vehicle.

**Sensitivity and Reset Push Button** - The Reset/Sens. button is used for two functions. A short press and release of the button will reset the detector and the LED's will both flash from 1 to 4 times, indicating the detector's sensitivity level. The detector is shipped from the factory with the sensitivity set at level 3.

If a different sensitivity level is required:

Push and continue to hold the button until the LED's start flashing - release the button immediately after the desired number of flashes.

For example, if the sensitivity is to be changed to level 2, push and hold the button until the LED's flash twice then immediately release the button.

The sensitivity level can always be verified by a quick tap on the pushbutton. This will reset the detector and flash the two LED's indicating the present level.

Level 1 - Very Low

Level 2 - Low

Level 3 - Normal (Factory setting)

Level 4 - High

**Outputs** - Solid-state (open transistor collectors) for both "Detect" and "Fail" outputs. 30 mA maximum current sink - transient voltage protected.

**Power** - 10 to 30 Volts AC or DC (20 mA max).



**Loop Failure** - The green power indicator flashes slowly if the loop circuit is open and quickly if the loop circuit is shorted. This detector will output a "Detect" for either of these loop failed conditions.

**Size** - Height: 2.4" Width: 0.8" Depth: 2.25"

**Connector** -10 position Molex Type 09-48-1104 Mates with many female PCB 0.156" pitch headers in use by some access control devices and gate operators.

- 1 - Loop input
- 2 - Loop input
- 3 - Power\* (10 to 30 Volts AC or DC)
- 4 - No Connection
- 5 - No Connection
- 6 - Fail output -connects to common for fail.
- 7 - Fail output -connects to common for fail.
- 8 - Detect output -connects to common for detect.
- 9 - Power\* (10 to 30 Volts AC or DC)
- 10 - Power Common

\*Either, or both of these pins can be used to supply power to the detector.



*Stuck in traffic for over 30 years!*

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

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**DSP40S\_CUT\_S**

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