

LOOP DETECTOR DSP-10

LEES TECH
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“UNIVERSAL” Detector



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 voltage ranges: DSP-10-LV 10 to 30 Volts AC or DC

With its compact size, front panel switch features and built-in flexibility the DSP-10 is the most **USER FRIENDLY** detector on the market today.

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 -A 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.

Height: 105mm Weight: 60mm Depth: 45mm

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.

FRONT PANEL SELECTABLE SWITCHES

Sensitivity - Ten sensitivity settings.

Frequency- Automatically tunes within one of four operating ranges.

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

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

SPECIFICATIONS

Output Relay Ratings - 3A, 150 VDC or 300 VAC.

Power - DSP-10-LV (10 to 30 Volts AC or DC) Power consumption less than 3 Watts.

Enclosure - Impact resistant, high temperature plastic. Height: 60mm Width: 45mm Depth: 92mm

Connector - Amphenol 11-pin connector:

- 1 (Black) - AC hot / DC +
- 2 (White) - AC neutral / DC COM
- 3 (Orange) - B relay (Closes for detect)
- 4 (Green) - Chassis ground

5 (Yellow) - A relay COM

6 (Blue) - A relay (Closes for detect)

7 (Gray) - Loop

8 (Brown) - Loop

9 (Red) - B relay Common

10 (Pink) or (White/Black) - A relay (Opens for detect)

11 (Violet) or (White/Red) - B relay (Opens for detect)

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

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