



Instructions for 9406 & 9410 Single-Channel Loop Detector

These loop detectors are designed to be used with DoorKing vehicular gate operators only. The detector plugs into loop detector ports on the gate operator control board eliminating the need for any hard wiring other than the connection of the loop itself. The detector also employs several automatic and advanced features that will decrease "false" calls and assist technicians in the field with trouble shooting loop problems. Refer to the LOOPINFO manual for information on installing in-ground loops.

Sensitivity Boost

The sensitivity boost feature automatically increases the sensitivity of the loop detector when the detector is tripped by the passage of a vehicle over the loop. This prevents the detector from "losing" high bed vehicles as they pass over the loop.

Fast-Trak

When Fast-Trak is turned on, the detector will track slow frequency shifts in the loop twice as fast as when this feature is turned off. This feature is useful on poor quality loops that drift in frequency. An indication of this would be when the detector has many "false" calls.

Caution should be exercised when using the Fast-Trak feature. When Fast-Trak is turned ON, it will cause the presence time of the detector to be about half that of normal. That is to say, the detector will "tune out" vehicles that are parked on or near the loop about twice as fast as when this feature is turned off. **For this reason, we recommend that the Fast-Trak feature only be used as a temporary solution to loop frequency drift problems that are typically (but not always) caused by the use of poor quality wire in the loop itself.** If excessive frequency drift continues (indicated by many "false" calls), the loop itself will have to be replaced.

Frequency Measurement

Whenever the detector is powered up, or when the reset switch is pressed, the detector will blink out the frequency that the loop has tuned to (in KHz) on the CALL LED. For example, five blinks - pause - six blinks would indicate the loop has tuned to 56 KHz.

This automatic frequency measurement is useful in applications where two or more loops and loop detectors are in close proximity to each other. A common problem with loop detectors "false calling" is because two or more loops in close proximity to each other are cross talking. Knowing what frequency the loop has tuned to allows you to reset the frequency on one of the detectors as far from the other detector as possible.

Loop Monitor

The loop detector constantly monitors the frequency of the loop to determine if the frequency is too high or too low, or if the loop has opened. When this happens, the detector will LOCK ON and the loop CALL LED will flash. If the frequency of the loop returns to nominal levels, the detector will resume normal operation but will continue to flash the CALL LED.

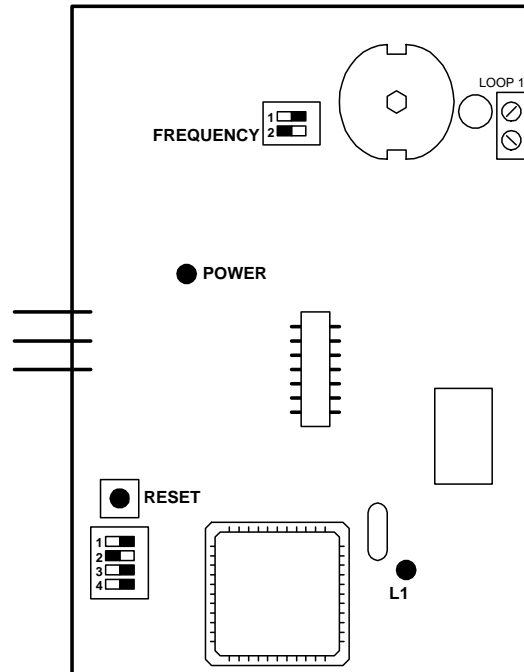
A flashing CALL LED is an indication that a problem exist in the loop itself and that the loop should be replaced. The CALL LED can be reset by pressing the reset button.

Plug the loop detector into the desired port (open, reverse) on the gate operator control board. The output of loop 1 is feed directly to the operator control board, or can be switched to a terminal. Refer to the gate operator installation manual.

Connect the lead-in wires from the loop to the terminals marked LOOP 1. Set the frequency and operation switches as required.

POWER LED will illuminate whenever power is applied to the loop detector. L1 is the CALL LED and will illuminate when the detector senses a vehicle in the loop field and will also indicate the loop frequency when the detector is powered up.

Pressing the RESET button clears faults and resets the detector anytime that it is pressed.



LOOP FREQUENCY ADJUSTMENT		
	Switch 1	Switch 2
High	OFF	OFF
Med-High	OFF	ON
Med-Low	ON	OFF
Low	ON	ON

LOOP DETECTOR OPERATION ADJUSTMENTS				
FAST-TRAK	SENSITIVITY			BOOST
Switch 1		Switch 2	Switch 3	Switch 4
OFF-Normal ON-FastTrak Engaged	Low	OFF	OFF	OFF-Normal ON-Boost Engaged
	Med-Low	OFF	ON	
	Med-High	ON	OFF	
	High	ON	ON	