

vehicular loop

LiftMaster

detector

now with BOOST CONTROL



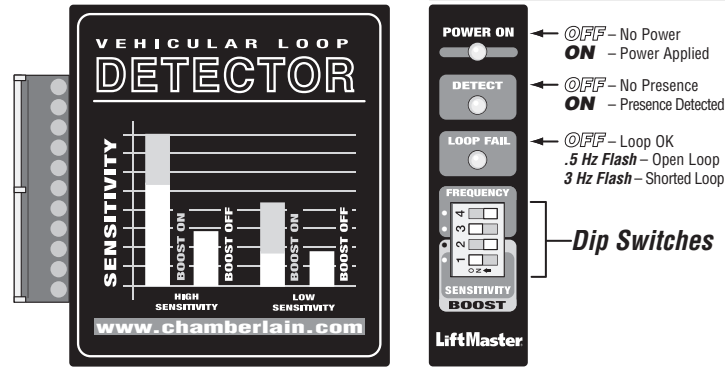
Plug-In Loop Detector
for Liftmaster
Enabled Controllers

MODEL # AELD

Plug-In Loop Detector

Part # AELD

for the OmniControl™ Board



Dip Switch Functions

Dip Switch 1 - Sensitivity Level: The sensitivity is controlled by the setting of switch1 on the front edge of the detector.

High Low

Note: Changing the sensitivity setting *will* automatically reset the detector. Changing the frequency setting *will not* reset the detector. It is always necessary to reset the detector after changing the frequency setting by turning the gate operator power off.

Dip Switch 2 - Boost on/off: When the switch 2 is off, the sensitivity boost is disabled. When the switch 2 is on, the sensitivity boost is enabled. Boost enabled will increase the sensitivity to detect high profile vehicles.

ON OFF

Dip Switch 3 & 4 - Frequency: The operating frequency of the detector is controlled by the setting of switches 3 and 4 on the front edge of the detector. Sometimes when buried loops are in close proximity to each other, it may be necessary to select different frequencies for each buried loop to avoid loop interference (commonly called crosstalk). **The actual loop operating frequency is a function of the size of the loop, the number of turns in the loop, the length of the lead-in cable, and the setting of the frequency switches (SW 3 & 4).** Therefore, setting one detector to Low and the other to High may not provide any separation of operating frequency. The most accurate method of setting the operating frequency of multiple detectors is to use a frequency meter connected to the loop to actually read the operating frequency. The detectors frequency should be adjusted so that there is a minimum of **5 kilohertz** of separation between all adjacent loops.

LED Functions

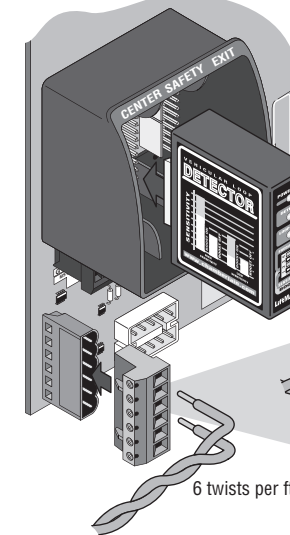
- POWER ON** ← OFF - No Power
ON - Power Applied
- DETECT** ← OFF - No Presence
ON - Presence Detected
- LOOP FAIL** ← OFF - Loop OK
.5 Hz Flash - Open Loop
3 Hz Flash - Shorted Loop

Dip Switches

Failed Loop Diagnostics

The "FAIL" LED indicates whether or not the loop is within tolerances. If the loop is out of tolerance, the LED indicates whether the loop circuit was shorted (3Hz Flash) or open (.5 Hz Flash). When the detector is detecting a loop failure it will force a call output and the CALL LED will be on. If the loop problem corrects itself, the detector will begin operating normally again and the Fail LED will revert back to the Off state.

Plug-In Loop Detector Installation



1. Turn the power **OFF** to the gate operator.
2. Plug in the loop detector in the desired slot (i.e. center, safety, exit)
3. Plug in the terminal plug (provided) into terminal J8 receptacle on the bottom left of the Omni board.
4. Bring twisted wires from the loop into the proper terminal on the terminal plug (i.e. center, safety, exit).
5. Turn the power back on.

Caution:
If using more than 1 loop detector, set them to **different** frequencies. (Refer to Dip Switch 3 & 4)

Loop Installation

- 1 Mark the loop layout on the pavement. Remove sharp inside corners that can damage the loop wire insulation.
- 2 Determine the thickness of the pavement to insure that the depth of the cut will not exceed the thickness of the pavement before attempting to cut the loop slots. Set the saw to cut a depth (typically 2" to 2.5") that will insure a minimum of 1" from the top of the loop wires to the pavement surface. The saw width must be larger than the diameter of the loop wire to avoid damage to the wire insulation when placed in the saw cut. Cut the loop, corner angles, and feeder slots. Remove all debris from the saw slot with compressed air. Check that the bottom of the cut is smooth and did not break though the thickness of the pavement.

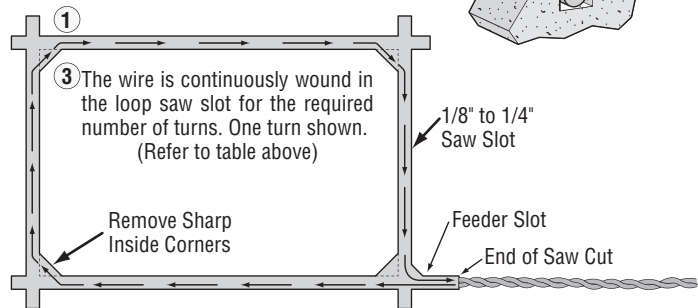
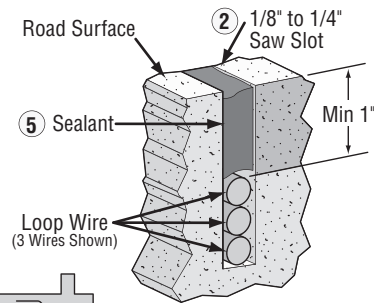
For more information visit www.devancocanada.com

Loop Installation

- ③ The loop itself must be a continuous length of wire without any breaks or splices. The loop wire can be 14, 16 or 18 gauge stranded wire with either a **cross-linked polyethylene (XLPE)** or **polyester insulation**. Wrap the loop wire in the loop slot using a wooden stick or roller to insert the wire to the bottom of the saw slot until the desired number of turns are reached. (**Caution:** do not use a sharp object) Each turn of wire must lay flat on top of the previous turn.
- ④ The wire must be twisted a minimum of 6 turns per foot from the end of the feeder slot to the detector to minimize noise or interference. If a splice is required in the feeder cable, solder each splice and protect with a moisture proof seal.
- ⑤ Apply the sealant. The sealant selected should have good adhering properties with similar contraction and expansion characteristics as the pavement material.

Important

Loop Perimeter	Number of Turns
10 feet - 13 feet	4
14 feet - 26 feet	3
27 feet - 80 feet	2
81 feet and up	1

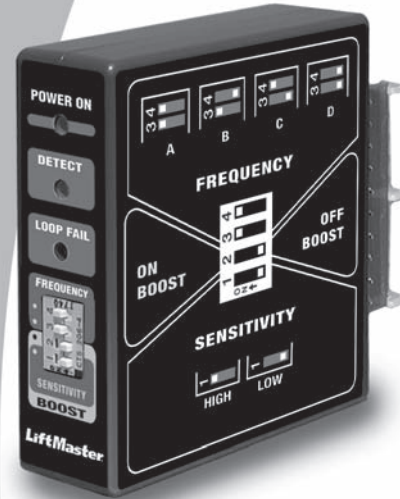


- ④ The wire must be twisted together 6 twists per foot from the end of the saw cut to the detector

#AELD Plug-In Loop Detection

now with **BOOST CONTROL**

for the OmniControl™ and other LiftMaster #AELD enabled controllers.



These high quality loop detectors are for use with the OmniControl™ Board available on LiftMaster's commercial line and other enabled controllers. With LiftMaster's proven design and integration technology, these component detectors will make installation of loop detection systems simple.

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LiftMaster

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Warning: LiftMaster does not warrant nor assumes liability for #AELD Loop Detectors installed in non LiftMaster enabled controllers.

HOW TO ORDER REPAIR PARTS

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