

## Loop Detector

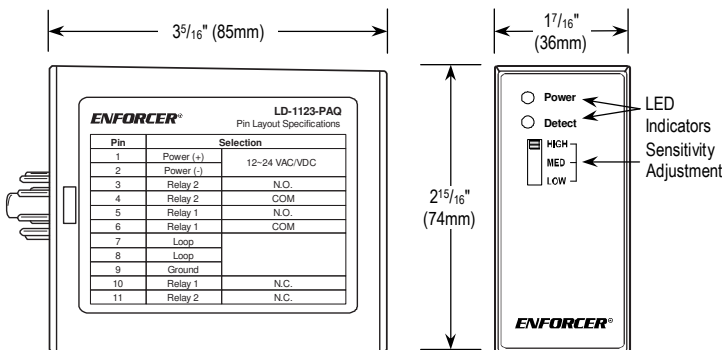
### LD-1123-PAQ

The LD-1123-PAQ Loop Detector is designed to be used with gates or other vehicle detection systems. The unit is connected to an input loop which is buried in the pavement. If a vehicle is over the input loop, the detector sends a signal to perform such actions as opening a gate, holding a gate open, or indicating that a vehicle is in a bay.

### Features:

- Single loop input
- 3 Adjustable sensitivity settings
- 2 Form "C" relay outputs
- 11-Pin connector
- ABS plastic housing
- Power-on automatic reset
- Automatic drift compensation for varying environmental conditions
- Auto fault detection
- Terminal block (LD-ACC-TB) included
- Also Available: Wire Harness (LD-ACC-WH)

### Overview:



### Specifications:

Operating voltage	12~24 VAC/VDC	
Current draw	Standby	40mA@12VDC / 40mA@24VDC
	Active	50mA@12VDC / 60mA@24VDC
Loop induction range	80~300 μH	
Sensitivity	3 levels of sensitivity	
Reaction time	100ms	
Vehicle detection mode	Combines relays #1 and #2 to detect vehicle presence, with pulse on entry	
Presence output	Temporary (triggers relay #1 as long as vehicle is in the loop, times out after 5 minutes)	
Pulse output	Pulses relay #2 on entry	
Fault output	Relay #2 is continually energized and the green LED stays on	
Pulse output time	200ms	
LEDs	Red	Power indicator
	Green	Status indicator (vehicle detected or fault)
Input / Output protection	Built-in surge and transient protection	
IP Rating	IP54	
Case material	Black ABS plastic	
Operating humidity	Up to 95% without condensation	
Operating temperature	-40°~149° F (-40°~65° C)	
Dimensions	2 15/16" x 1 7/16" x 3 5/16" (74x36x85 mm)	
Weight	7.2-oz (203g)	

NOTE: Vehicle detection will timeout after 5 minutes, after which relay #1 will no longer be triggered. The vehicle must then exit and re-enter the loop to trigger relay #1.

### SECO-LARM® U.S.A., Inc.

16842 Millikan Avenue, Irvine, CA, 92606

Phone: (949) 261-2999 | (800) 662-0800 Fax: (949) 261-7326

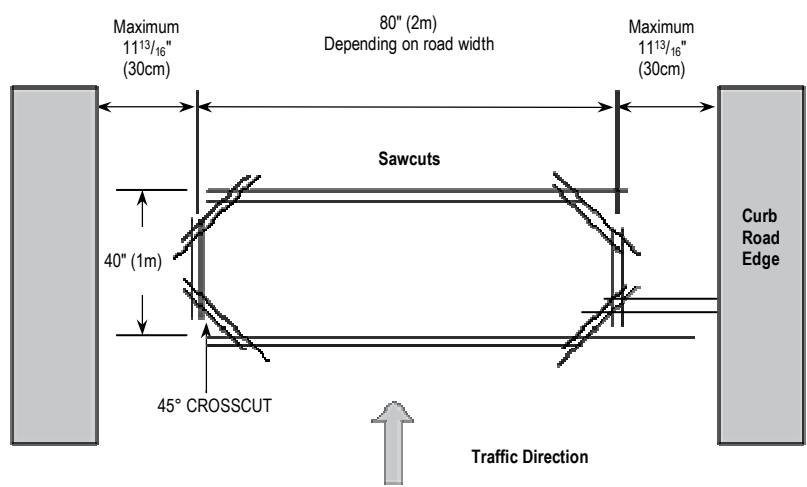
Website: www.seco-larm.com Email: sales@seco-larm.com

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## Installation (Loop Detector):

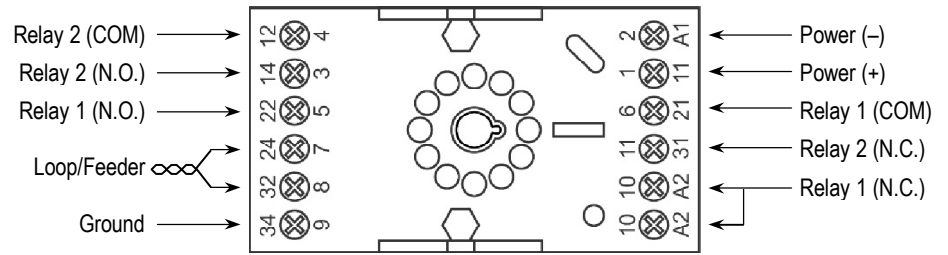


## Terminal Block and Connections:

The terminal block LD-ACC-TB is included for easy wiring and installation. Remove the terminal block from the loop detector to access the terminal screws.



LD-ACC-TB



## Installation (Wire Harness):

The Wire Harness LD-ACC-WH (not included) is also available in place of the terminal block.



LD-ACC-WH

### Wire Harness Connections:

Item	Color	Pin No.	Connection Notes
Wire 1	Black	Pin 1	Power (+)
Wire 2	White	Pin 2	Power (-)
Wire 3	Red	Pin 3	Relay 2 — N.O.
Wire 4	Purple	Pin 4	Relay 2 — COM
Wire 5	Blue	Pin 5	Relay 1 — N.O.
Wire 6	Yellow	Pin 6	Relay 1 — COM
Wire 7	Brown	Pin 7	Loop
Wire 8	Grey	Pin 8	Loop
Wire 9	Green with yellow	Pin 9	Ground
Wire 10	Pink	Pin 10	Relay 1 — N.C.
Wire 11	Green	Pin 11	Relay 2 — N.C.