

## Single Channel – Single Output Plug-In Vehicle Detector



### Model NP2-LM Features:

Plug-in compatible with LiftMaster® Operators

- 4 Selectable Sensitivities
- 4 Selectable Frequencies
- Wrong Voltage Protection
- Separate Power/Fault and Detect Indicators
  - Automatic Sensitivity Boost
- Power Supply Requirement 10 to 24 Volts DC, 5mA nominal
  - Selectable Presence Times
  - Permanent Presence Option

# NP2-LM Specifications

## Front Panel Selections:

**Sensitivity** – controlled by front panel DIP switch.

- 0 (5)OFF+(6)OFF= Low sensitivity
- 1(5)ON+(6)OFF=Med.Low
- 2(5)OFF+(6)ON=Med. High
- 3 (5)ON+(6)ON= High sensitivity

Medium sensitivity is used for most applications; this is a setting of 1 or 2. Always use the lowest sensitivity setting that provides expected operations.

**Frequency** – four separate settings controlled by front panel DIP switches.

- (1)OFF+(2)OFF = High
- (1)OFF+(2)ON = Medium High
- (1)ON+(2)OFF = Medium Low
- (1)ON+(2)ON = Low

**Reset** – front panel reset performs a hard reset of the detector.

## DIP Switch Options:

**Switch A ON** = 15 min presence time

**Switch A OFF** = 60 min presence time

**Switch B ON** = Permanent Presence

## Outputs:

Detect Output is fail secure, loss of power does not cause a detect output to be placed.

## Factory Settings:

- Set to High frequency
- Set to Medium Low sensitivity (1)

**Specifications: Output Rating:** Solid State. 30mA

Maximum current sink. Output is protected from over-voltage or polarity reversal.

**Power:** 12 to 24 volts DC, 5mA nominal.

**Inductance Range:** 20uH to 1500uH.

**Temperature Range:** -30 F to +180 F.

**Lead-In Length:** up to 2500 ft. with proper lead-in and loop.

**Mechanical:** 2.4" H x 2.25" D x 0.8" W.

**Supply Voltage** – incorrect voltage supplied to the unit will not result in damage, the unit will simply not operate until correct voltage is supplied. No fuses need to be reset.

**Indicators** – front panel indicators:

Power/Fault – Blue, solid with correct power supplied.

Flashes during a fault condition.

Fault flash sequence: Single flash and

pause = Open Circuit Loop

Double flash and pause = Shorted

Loop.

Detect – White, solid during detect.

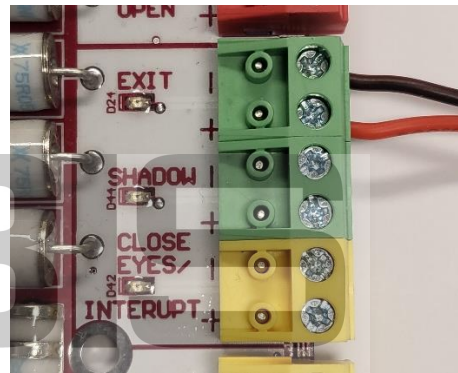
**Sensitivity Boost** – automatic during detect except in the highest sensitivity setting (3).

**Connector:** – 9 Pin

Pin #	Function
1	Loop
2	Loop
3	No Pin
4	Not used
5	Not used
6	Not used
7	Not Used
8	Ground
9	Power 12-24VDC

## Output Connector

1. Signal (Red Wire)
2. Common (Black Wire)



\*Picture to give an example to how to run the attached connector wires from the detector to the main control board.

**Note:** The above connections are shown with correct power supplied and no vehicle present.

Northstar Controls LLC. warrants this product against defects in Manufacturing and workmanship for one year from date of shipment from the Northstar Controls LLC. factory.

Specifications are subject to change without notice.

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