



**NORTHSTAR
CONTROLS, LLC**
Vehicle Detection, Systems & Accessories



NP2-ES | ACCESS CONTROL

Single Channel Dual Output Plug-In Vehicle Detector



10-Pin Molex Connector



4 Selectable Sensitivities



4 Selectable Frequencies



Selectable Presence Times



Separate Power/Fault & Detect Indicators



Permanent Presence Option



Our Facility
Sarasota, Florida



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Built in America, by an American

Front Panel Selections:

Sensitivity – controlled by front panel DIP switch.

- 0 = Low sensitivity
- 3 = 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.

- 2+1 = High
- 2+0 = Medium High
- 1+0 = Medium Low
- 0+0 = Low

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

DIP Switch Options:

- Switch A ON** = 15 min presence time
- Switch A and B 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 both Detect and Fail. 30mA Maximum current sink. Outputs are protected from over-voltage or polarity reversal.

Power: 10 to 30 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 – Green, 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 – Red, solid during detect or fault.

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

Connector

10 position Molex Type 09-48-1104

Pin #	Function
1	Loop
2	Loop
3	Power – 10 to 30 V DC
4	Not used
5	Not used
6	Fail output
7	Fail output
8	Detect output
9	Power – 10 to 30 V DC
10	Power Logic Ground

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

