



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



NP2-ESL | ACCESS CONTROL

Single Channel – Single Output, Very Low Power,
Miniature Vehicle Detector



Extremely Low Power Operation



4 Selectable Sensitivities



4 Selectable Frequencies



Detachable Screw Terminal



Selectable Fail Safe/Fail Secure Option



Selectable Presence Times



Our Facility
Sarasota, Florida



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Built in America, by an American

Front Panel Controls:

Sensitivity – controlled by front panel DIP switch

- 0 = Low Sensitivity
- 1 = Medium Low Sensitivity
- 2 = Medium High Sensitivity
- 3 = High Sensitivity

Medium Low sensitivity should be used for most applications; this is a setting of 1. Always use the lowest sensitivity setting that reliably detects desired vehicles. Lower sensitivity allows operation with the lowest possible current consumption.

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

Switch A&B Options:

Switch A ON = 15 min presence time

Switch A OFF = 60 min presence time

Switch B ON = Fail safe (contact closes on power fail)

Switch B OFF = Fail secure (no output on power fail)

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: Relay Output is rated 120VAC, 28VDC, 0.5A

Supply Power: 10 – 30 V DC or AC, 1mA nominal -(Not in detect/Tuned/Power light off

Inductance Range: 20uH to 1000uH

Temperature Range: -30 F to +180 F

Lead-In Length: up to 1000 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. Goes out in 3 minutes

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.

Power Saving Mode: While in normal operation with no fault indication, the green LED will extinguish after a period of 2 minutes. A power interruption or reset will re-illuminate the green LED.

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

Connector: – 7 position Screw Terminal Block

Pin #	Function
1	Loop
2	Loop
3	Relay N.C.
4	Relay N.O.
5	Relay Common
6	Power 10 - 30 VDC or AC
7	Power – Common

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

