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

Learn more
northstarcontrols.com

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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.

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.

L NP2ESL - Rev F