

## 231 / 201

### Magnetic Vehicle Sensing Unit



#### FEATURES :

##### 231 Probe

- Waterproof direct burial sensor element
- Lead-In Cable is 50 ft. long.
- Eliminates need to cut & wind loops.
- Slimline Design.



##### 201 Amplifier

- Vehicle Passage detection is provided.
- Shelf mount style.
- Powered from AC line.
- 5 Amp Relay output contacts.
- Aluminum enclosure.

#### 231 / 201 Magnetic Vehicle Sensing Unit

The 231 / 201 magnetic vehicle sensing unit is a cost effective way to sense the passage of vehicular traffic. The unit consists of a magnetic sensing element or probe (231) and a single channel sensor module (201).

The 231 is constructed of 3/4" PVC tubing. No active components are contained in this unit. All components are encapsulated within the tube, which is then sealed. This prevents the entrance of moisture, salt or dirt. Recommended placement of this probe for maximum coverage is 1 to 18 inches below the surface of the roadway pavement centered in the lane or street in which traffic is to be detected. It can be buried directly or placed in a PVC conduit for later removal. It can also be mounted under bridge structures although sensitivity will be slightly reduced. The lead-in cable consists of a twisted pair 18 AWG wire with an overall PVC jacket.

The 201 unit is placed on a shelf in the controller cabinet. The unit comes with a connecting harness and heavy duty MS style connector. It is powered from the AC line. The 231 lead-in attaches to the 201 via the harness. The 231 / 201 combination produces a magnetic field in the roadway. When this is disturbed by the passage of a vehicle the 201 will detect that a vehicle is passing and will provide an output to the traffic controller.

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**NOVA TECH,** 184 Goose Lane, Tolland, CT 06084, Phn 860.871.4180, Fax 860.871.4187

## 231 / 201 SPECIFICATIONS:

### POWER REQUIREMENTS

110 VAC @ 110 mA.

### OPERATING MODES

Sensitivity is variable by a front panel rotary knobs.

### OUTPUT (201)

Relay 2 From C (NO / NC)  
5 Amp contacts.

### DIMENSIONS

231 - .75" Dia. x 18"L.

201 – 7.0"L x 2.25"H x 4.0"W

### LEAD-IN (231)

50 ft., Two Conductor, Stranded, 18AWG, PVC Coated, Overall PVC/PE Jacketed Wire.

Environmental: -40C to +85C

(Optional shielded wire available for lightning prone areas)

### HARNESS (201)

MS3102A-18-8S, 18AWG, 6ft.

## CONNECTIONS:

PIN	FUNCTION
A	Detector
B	Detector
C	AC+
D	spare
E	Relay Common
F	Relay N.O.
H	Relay N.C.
Shell	Ground

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