



THE POWER OF INDUCTIVE DETECTION!

The **GL-002** is an inductive amplifier that has been the heart of our vehicle sensing control systems. It provides dependable vehicle detection that is unmatched by any other. It has the ability to detect a vehicle without interference from employees or atmospheric conditions.

The unit utilizes an inductive loop (a set of wire windings usually called a sensor) to set up a magnetic frequency barrier. When the barrier is disrupted by metal, the unit can signal the turn on of any piece of equipment. Unlike Photo eyes, the SYSTEM (combination of the **GL-002 DETECTOR** and a **GL-14 STAND** or **GL-SM8 PAD**), is not affected by employee movement. The SYSTEM is based on the principle of inductive metal detection. When metal disrupts the magnetic field generated through the sensor the detector turns on (presence). No physical contact is needed for the system to work. An Inductive SYSTEM is unaffected by water, mist, temperature, employee movement and chemicals. It is the perfect match for harsh car wash conditions. The detector has an L.E.D. indicator to show a presence condition. This is when the presence relay is activated. The DETECTOR can be customized for different control arrangements.

STANDARD FEATURES :

- * Inductive Detection
- * 1 Presence Relay - SPDT (7AMP OUTPUT)
- * 1 Pulse/Auxiliary Function Relay - SPDT (7AMP OUTPUT)
- * Fits Standard 11 Pin round Base (Same As Round 11 Pin Relay Bases)
- * Detector Wiring Diagram

OPTIONS:

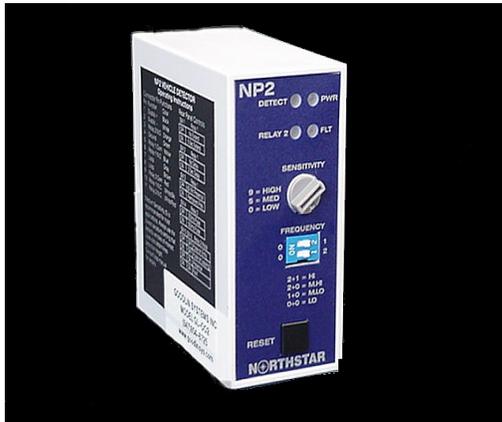
- 11 Pin Relay Base (For Mounting And Wiring)
- 11 Pin Plug Assembly (12 inch length)

GENERAL APPLICATIONS:

- Vehicle Wash Entrance (For Computer)
- Vehicle Wash Trip Switch (In Place Of Limit Switch)
- Vehicle Presence For Gates \ Entrance Ways (Door Opener)
- Vehicle Occupation Of Bay \ Parking Space
- Vehicle Detection for Computer Controlled Anti-Collision
- Vehicle Counter
- Vehicle Presence For Prep Gun Activation
- Vehicle Presence For Vacuum Activation
- Traffic Controls

INDUCTIVE LOOP DETECTOR

GL-002



Supply Voltage – (standard 120vac)
 Indicators – Front panel indicators include:
 Power – Green solid with correct power supplied
 Relay 1 – Red, Solid during detect.
 Relay 2 – Red, Solid during detect
 Fault - Yellow, solid during current fault, flashing for historical fault.

Sensitivity Boost – Automatic during detect except in the highest sensitivity setting (9)
 Connector – 11 pin Amphenol (standard 11pin round relay/time delay base will work)

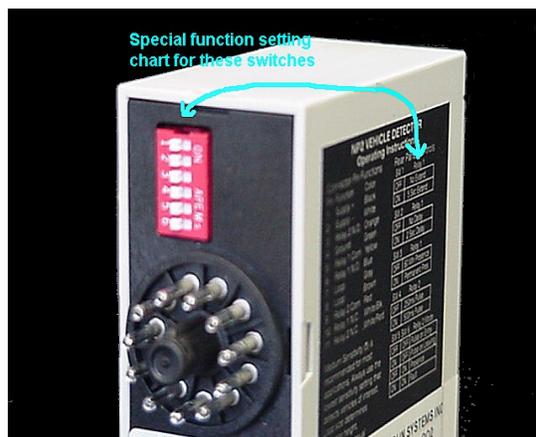


Front Panel Selections:

LOOK IN THE NOTCH OF THE TURN DIAL FOR #
 Sensitivity – controlled by front rotary switch
 0 = Low sensitivity 9 = High Sensitivity

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



Rear Panel DIP Switch Selections

Relay 1
 Extend – switch 1 is for extending the detector output after the vehicle has left the loop. Switch 1 OFF = No extension ON = 5 second extension. This is once the vehicle leaves the loop. This extension applies to relay 1 only.

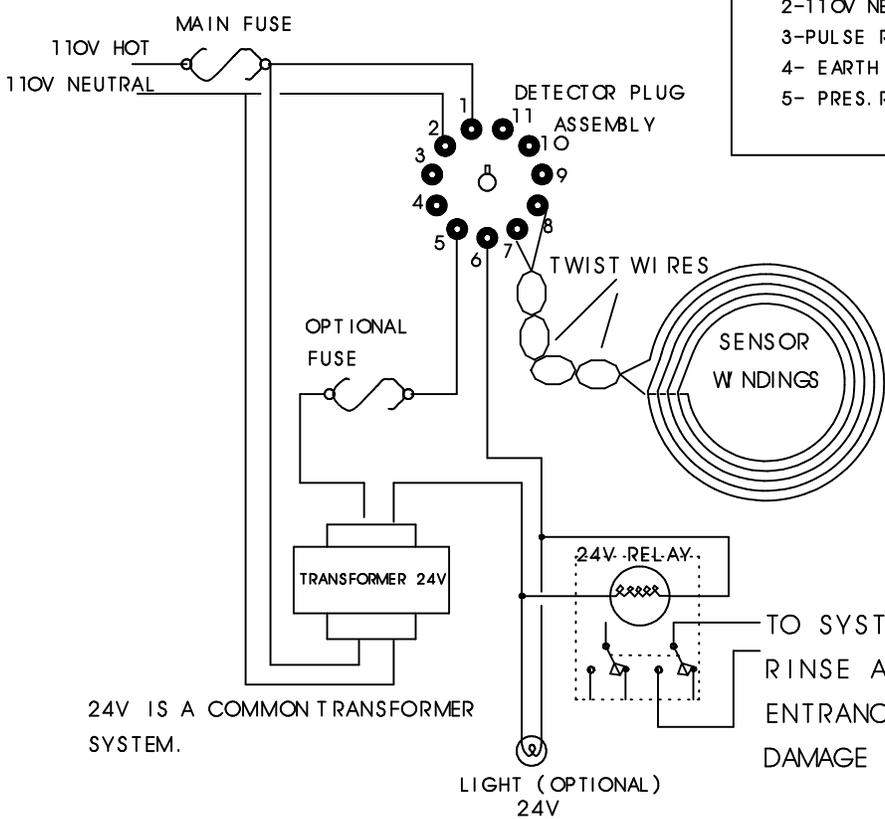
Delay – switch 2 is for providing a 2 second delay, the detector will ignore the vehicle until the vehicle has been present over the loop for 2 seconds.
 Switch 2 OFF = No Delay ON = Delay

Presence Time – switch 3 provides for either a 1 hr presence of permanent presence. Switch 3 OFF = 1 hour Presence ON = permanent presence

PIN	FUNCTION
1	Power (+)
2	Power (-)
3	Relay 2 N.O.
4	Ground
5	Relay 1 Comm
6	Relay 1 N.O.
7	Loop
8	Loop
9	Relay 2 Comm
10	Relay 1 N.C.
11	Relay 2 N.C.

SAMPLE WIRING DIAGRAMS FOR A LOOP CONTROL SYSTEM

DETECTOR AND RELAY CONTROL



NOTE: DETECTOR PINOUT BASED ON GOODLIN SYSTEMS
OTHER DETECTORS MAY VARY

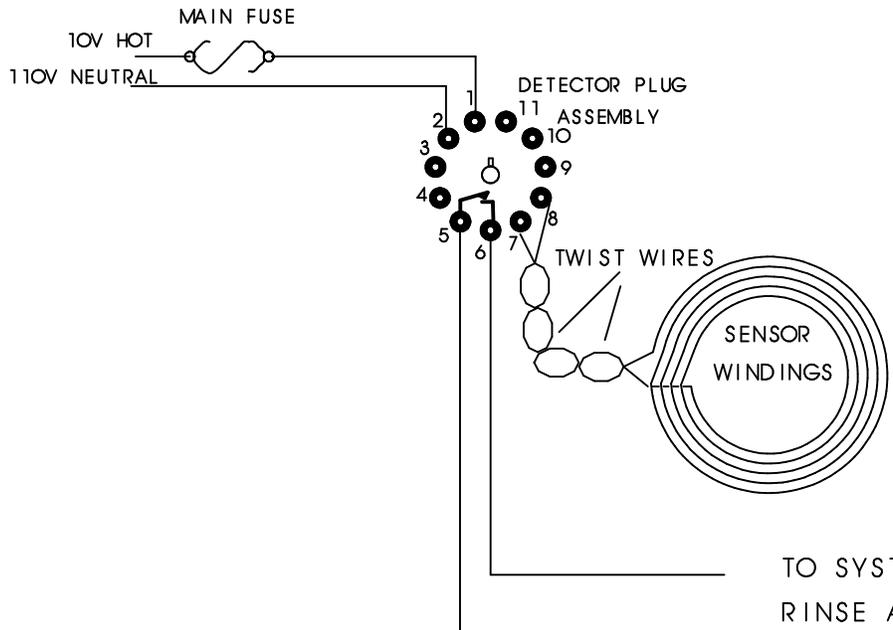
1-110V HOT	6- PRES RELAY NO
2-110V NEUTRAL	7- LOOP
3-PULSE RELAY NO	8- LOOP
4- EARTH GROUND	9- PULSE RELAY CMM
5- PRES. RELAY COMM	10- PRES RELAY NC
	11- NOT USED

THE LOOP WIRES
(FROM THE DETECTOR)
CAN BE WIRED INTO ANY
OF THESE
LOOP WINDINGS...
UNDERGROUND LOOP
TSS STAND
TSS PAD

TO SYSTEM TO BE TURNED ON
RINSE ARCH, BLOWER, WRAPS
ENTRANCE , SOAPER, GO LIGHTS,
DAMAGE CONTROL, ETC...

24V IS A COMMON TRANSFORMER
SYSTEM.

DETECTOR CONTROLLING DIRECTLY



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UNDERGROUND LOOP
TSS STAND
TSS PAD

TO SYSTEM TO BE TURNED ON
RINSE ARCH, BLOWER, WRAPS
ENTRANCE , SOAPER, GO LIGHTS,
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