

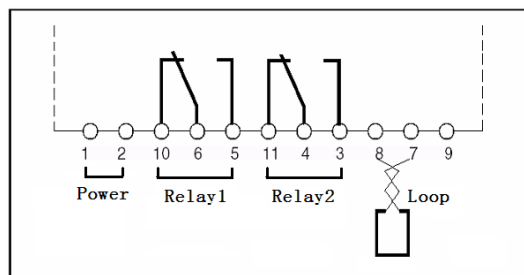
# VEHICLE LOOP DETECTOR USER'S GUIDE

NO: 9001-0110

## ■ Install Detector

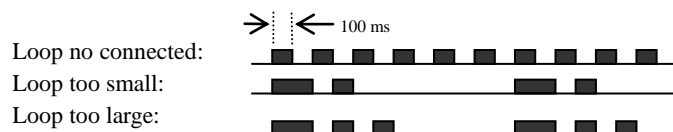
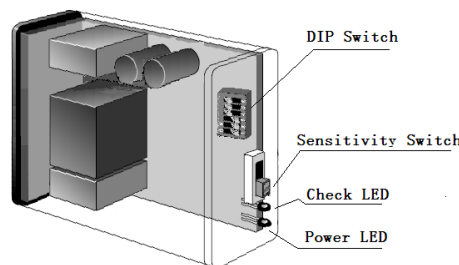
The loop detectors must only be placed in dry rooms or control cabinets that are protected against all types of moisture and wetness. A distance of at least 10 mm from other devices must be maintained on each side. The ambient temperature must not exceed 65 °C. The installation of the induction loop is described in other operating instructions.

## ■ Wiring Diagram



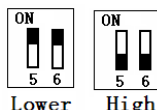
## ■ Operation and Indication

When the power is applied, the red Power LED will glow and the detector is tuning, the green Check LED blink about 3 seconds. The green LED will also glow whenever a vehicle is detected passing over the inductive loop. If a loop fault exists the green LED will come on and flash indicating a fault.



## ■ Frequency

To eliminate interference of two neighbouring wire loops or loop detectors, the frequency can be altered by DIP5 on the main board in the box.



## ■ Sensitivity

The response sensitivity can be set using the threestage switch on the front. The setting “L” corresponds to the lowest sensitivity. “M” is the medium sensitivity and “H” is the highest sensitivity.

After the sensitivity has been set, a reset and a calibration automatically takes place.

**【Attention】** If the detector isn't working normally, you must check the loop and wiring at first, and then alter the frequency or the sensitivity.

## ■ Output Relay

The output of relay 2 can be programmed by means of DIP3 Switch.

If DIP3 is “OFF” site, the output is presence output. When a vehicle is detected passing over the inductive loop, the relay 2 is energized( Pin3 and Pin4 is shorted) until the vehicle is detected leaving the loop. If DIP3 is “ON” site, the output of relay 2 is same as relay 1.

The output of relay 1 can be programmed by means of DIP1 and DIP2 Switch.

DIP1	DIP2	Output mode of relay1
OFF	OFF	When a vehicle is detected leaving the loop, relay1 is energized 1 S after 300 mS.
ON	OFF	When a vehicle is detected passing the loop, relay1 is energized at once and disconnect after 300ms.
OFF	ON	When a vehicle is detected passing the loop after 300ms, relay1 is energized until the vehicle is detected leaving the loop.
ON	ON	When a vehicle is detected passing the loop, relay1 is energized until the vehicle is detected leaving the loop after 300 mS.

## ■ Reset

The detector automatically reset and tune to the inductive loop when the power is applied, whether on initial installation or after any break in power supply. Should it be necessary to retune the detector, as may be required after changing any of the switches or after moving the detector from one installation to another.

## ■ Technical Data

Supply voltage:	230V AC , 115V AC, 24V DC/AC, 12V DC/AC ( See the label on the detector)
Voltage tolerance AC:	+10% / -15%
Voltage tolerance DC:	±15%
Power Consumption:	4.5VA
Output relays:	240V/5A
Operating temperature:	-20 °C to +65 °C
Storage temperature:	-40 °C to +85 °C
Frequency range:	20 kHz to 170 kHz
Reaction time:	100ms
Signal holding time:	Unlimited
Sensitivity:	Adjustable in 3 increments
Loop inductance:	Total loop plus connection wiring: 50µH to 1000µH. Ideal is 100µH to 300µH
Loop connection wiring:	Maximum length 20 meters, twisted at least 20 times per meter
Size of Housing:	78x40x108 mm (L x W x H)