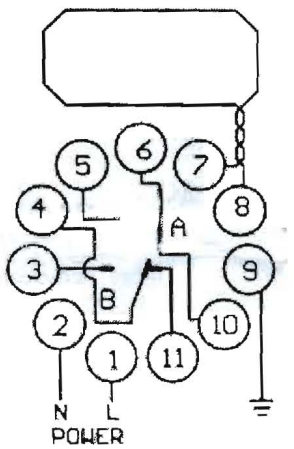
KDS-2001 Loop Vehicle Detector System

A. Connectors: Please refer to the input power, loop connectors and output connectors

PIN	CONNECTION
1	AC/DC 12V
2	AC/DC 12V
3	PULSE RLY N/O
4	PULSE RLY COM
5	PRES. RLY N/O
6	PRES. RLY COM
7	LOOP
8	LOOP
9	EARTH
10	PRES. RLY N/C
11	PULSE RLY N/C



B. Operation Panel and Switches:

1. POWER: Red LED Indicator. If it is in full lit, power is supplied.
2. DETECT: Green LED Indicator. If it is in full lit, a vehicle is detected. If it is blinking, the loop is faulty.

C. DIP SWITCH (DIP1~10):

(1). DIP 1 & DIP 2: PULSE RLY output types

DIP NO.	DIP 1	DIP 2	PULSE RLY Output Type	Vehicle Present
DIP MODE	OFF■□	OFF■□	When vehicle left loop, PULSE RLY is in pulse output for 500ms.	PULSE RLY Output
	□■ON	OFF■□	When vehicle left loop. PULSE RLY will delay 2 sec and give a pulse output for 500ms.	PULSE RLY Output (after 2 sec)
	OFF■□	□■ON	When vehicle going into loop, PULSE RLY is pulse output for 500ms.	PULSE RLY Output
	□■ON	□■ON	PULSE RLY will be present output.	PULSE RLY Output

(2). DIP 3: Automatic Reset

DIP NO.	DIP 3	Present Mode
DIP MODE	OFF■□	Vehicle can be permanent present. (no auto-reset, unless vehicle left or manual reset
	□■ON	Normal mode. (automatic reset after 30 sec present of vehicle, used to solve the mistake operation,eg: loop is in fault, It can be automatically reset after 30 second)

(3). DIP 4: Frequency (59KHZ~64KHZ). When they use 2 detector which can be adjust different types of method as High(64KHZ) Low(59KHZ)

DIP NO.	DIP 4	Frequency
DIP 3	□■ON	Low(Low)
	OFF■□	High(Hi)

(4). DIP 5 & DIP 6 & DIP 7: Sensor Sensitivity Control

1-8(lowest- highest) level available for sensitivity control and recommend Setting 5 for general level

Sensitivity	DIP 5	DIP 6	DIP 7
1	OFF■□	OFF■□	OFF■□
2	□■ON	OFF■□	OFF■□
3	OFF■□	□■ON	OFF■□
4	□■ON	□■ON	OFF■□
5(usually)	OFF■□	OFF■□	□■ON
6	□■ON	OFF■□	□■ON
7	OFF■□	□■ON	□■ON
8	□■ON	□■ON	□■ON

(5). DIP 8 & DIP 9 & DIP 10: PRES.RLY Delay Time

DIP NO.	DIP 8	DIP 9	DIP 10	Delay Time	Vehicle Present
DIP MODE	OFF■□	OFF■□	OFF■□	0 S	PRES.RLY output
	□■ON	OFF■□	OFF■□	2 S	PRES.RLY output
	OFF■□	□■ON	OFF■□	4 S	PRES.RLY output
	□■ON	□■ON	OFF■□	6 S	PRES.RLY output
	OFF■□	OFF■□	□■ON	8 S	PRES.RLY output
	□■ON	OFF■□	□■ON	10 S	PRES.RLY output
	OFF■□	□■ON	□■ON	12 S	PRES.RLY output
	□■ON	□■ON	□■ON	14 S	PRES.RLY output

(6).RESET Button: Press the RESET button will reset the detector. Reset is normally used after any DIP change and installation.

D. Specification

1. Supply power : AC/DC 12V
2. Consuming power : normal 1.0W, operation 3.6W
3. Operating temperature : -55℃~125℃, humidity 30%-85%
4. Size : 105mm(H) × 75mm(W) ×41mm(D)
5. Quality of material : aluminum, aluminum
6. Weight : 352g
7. Detection method : Pass detection mode(Frequency change mode)
8. Detection range : All of vehicle
9. Sensing range : LOOP COIL width over vehicle space distance
10. Detection speed : 0Km-180Km/h
11. Detect time : <15ms
12. Sensitivity: High sensitivity ~ Low sensitivity (8 Level)
13. Alignment : Automatic alignment system
14. Timer function : 0-14 Second control the time by option
15. Reset function : Reset bottom when error occur
    (Automatic:30 sec, Manual:Option)
16. Output singnal : PRESENT RELAY and PULSE RELAY, relay capacity is 250VAC/5A,110VAC/10A, 24VDC/10A