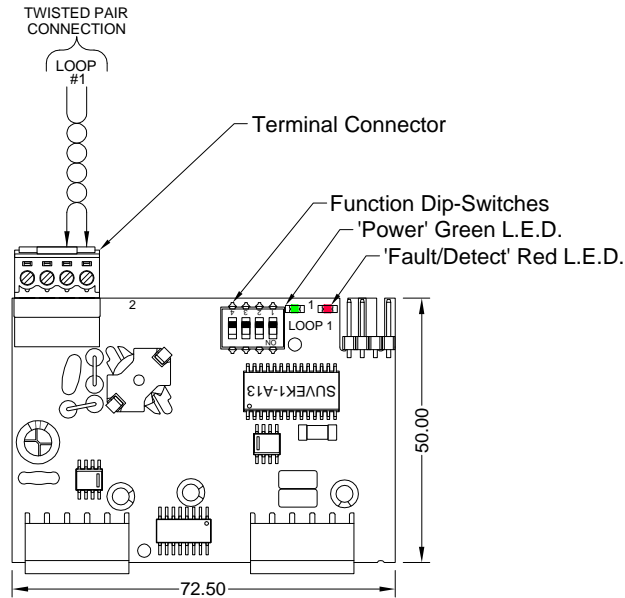


1 CHANNEL LOOP DETECTOR LAYOUT

Stock Code: 37-4051



OPERATING INSTRUCTIONS

1. Turn OFF power to the control panel.
2. Plug the loop detector module into the pins provided on the motherboard of the control panel.
3. Adjust the function Dip-Switches on the loop detector card as required. Please refer to Dip-Switch Function Settings.
4. Turn ON power to the control panel.
5. The green `Power` L.E.D. will flash continuously until the loop is tuned. Once tuned, the green `Power` L.E.D. will illuminate constantly.
6. If a loop is faulty or not connected properly the red `Fault/Detect` L.E.D. will illuminate constantly.
7. If a loop is covered the red `Fault/Detect` L.E.D. and the green `Power` L.E.D. will illuminate together.

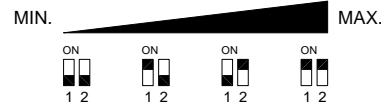
L.E.D. INDICATIONS

- Green Fast Flashing:- Detector is Tuning
- Green ON Constantly:- Detector is Ready
- Green & Red ON Constantly:- Loop has Detected
- Red ON Constantly:- Loop is Defective

DIP-SWITCH FUNCTION SETTINGS

Loop 1:

DIP-Switches 1 & 2:- Sensitivity (4 Steps)



DIP-Switch 3:- Holding Time (5 mins - Infinity)



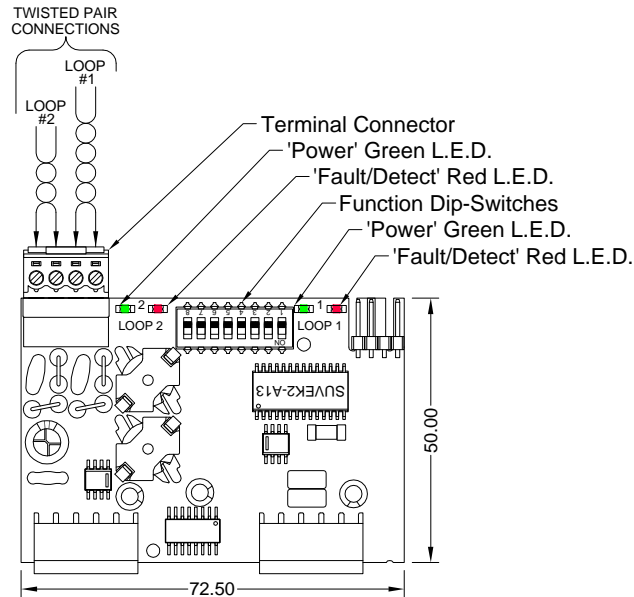
Note:- Loop will recalibrate after 5 minutes constant detection

DIP-Switch 4:- Frequency (High/Low)



2 CHANNEL LOOP DETECTOR LAYOUT

Stock Code: 37-4052



OPERATING INSTRUCTIONS

1. Turn OFF power to the control panel.
2. Plug the loop detector module into the pins provided on the motherboard of the control panel.
3. Adjust the function Dip-Switches on the loop detector card as required. Please refer to Dip-Switch Function Settings for the appropriate loop.
Fit choke if required (See Note).
4. Turn ON power to the control panel.
5. Both green `Power` L.E.D.'s will flash continuously until the two loops are tuned. Once tuned, the green `Power` L.E.D.'s will light constantly.
6. If a loop is faulty or not connected properly the red `Fault/Detect` L.E.D. will illuminate constantly.
7. If a loop is covered the red `Fault/Detect` L.E.D. and the green `Power` L.E.D. will illuminate together.

L.E.D. INDICATIONS

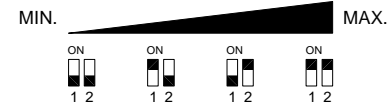
- Green Fast Flashing:- Detector is Tuning
- Green ON Constantly:- Detector is Ready
- Green & Red ON Constantly:- Loop has Detected
- Red ON Constantly:- Loop is Defective

Note:- If only one Loop is required, a 100µH choke **MUST** be fitted in place of the unused Loop.

DIP-SWITCH FUNCTION SETTINGS

Loop 1:

DIP-Switches 1 & 2:- Sensitivity (4 Steps)



DIP-Switch 3:- Holding Time (5 mins - Infinity)



Note:- Loop will recalibrate after 5 minutes constant detection

DIP-Switch 4:- Frequency (High/Low)



Loop 2:

DIP-Switches 5 & 6:- Sensitivity (4 Steps)



DIP-Switch 7:- Holding Time (5 mins - Infinity)

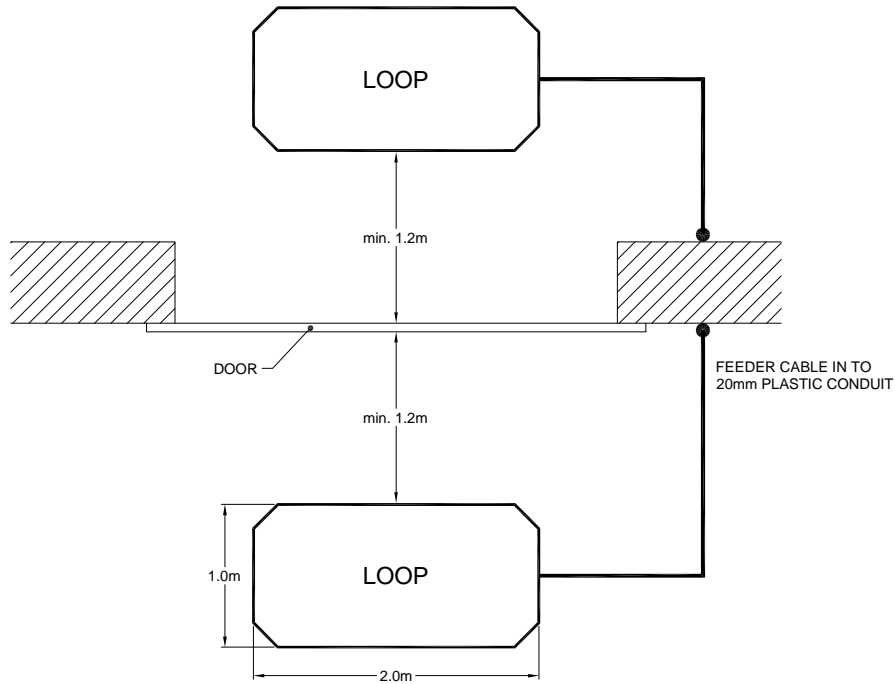


Note:- Loop will recalibrate after 5 minutes constant detection

DIP-Switch 8:- Frequency (High/Low)



TYPICAL EXAMPLE OF LOOP INSTALLATION



INSTALLING A LOOP

LOOP CABLE: Rubberised insulated wire of 0.75-1.50 sq.mm (awg 20 - awg 16), preferably multi-stranded.

LOOP SIZE: *Note:-* High bed vehicles require larger loops.

No. OF TURNS IN LOOP:

LOOP CIRCUMFERENCE	NUMBER OF TURNS
2 - 4m	6
4 - 7m	5
7 - 12m	4
12 - 25m	3

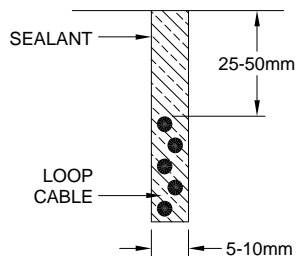
LOOP SLOT: Recommended depth to top of loop cable 25-50mm. (Maximum depth 65mm)
Loop slot **MUST** be sealed after cable has been installed and tested.
Use a flexible, weather proof sealant (i.e. Hot bitumen, Rubberised bitumen sealant).
CAUTION! Never use cement / concrete, etc...

FEEDER CABLE: The feeder cable **MUST** be twisted a minimum 10 times per meter & can be up to 250m long.

LOOP PLACEMENT: The loop must be placed at least 5m away from high tension cables and at least 1m away from low tension cables. If the loop is placed in an area with reinforcing iron (typically a concrete floor), the loop must be placed at least 50mm above the reinforcement.

TWO or MORE LOOPS: If the detector is used for detecting high vehicles (lorries etc.) use only one loop for each detector, otherwise it is possible to connect two loops to a single detector. Series coupling the loops will give the largest sensitivity, parallel coupling gives the fastest reaction.

CONCRETE / TARMAC



BLOCK PAVING

