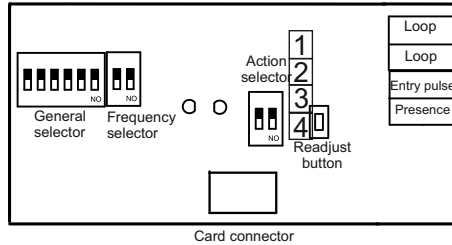


Instruction Manual

(DMT)



Card connector

FREQUENCY SELECTOR

OPTION 1 - 2 : Select the detector working frequency

- OFF - OFF** - Maximum frequency of oscillation
- OFF - ON** - Mid-Maximum frequency of oscillation
- ON - OFF** - Mid-Minimum frequency of oscillation
- ON - ON** - Minimum frequency of oscillation.

ACTION SELECTOR

OPTION 1 - 2 : Select the action to cause by the detector

- OPTION 1** - Activate controller open function when vehicle is being detected
- OPTION 2** - Activate controller security function when the vehicle is being detected. If you use it, you must remove the C.SEG jumper connector of the controller.
In another security system is used you must connect it in serial.

LED INDICATOR

There are 2 leds, one Red and one Green, indicating the follow function condition

GREEN	RED	
ON	ON	Readjusting
FAST FLASH	OFF	Loop is too short or its broken.
OFF	FLASH	Loop is too long or there are too many turns in the loop. Try selecting a higher frequency or readjusting the detector.
OFF	ON	Vehicle detected, or the coil is not connected or broken.
FLASH	OFF	Loop correct operation.

Card designed to detect the pass of vehicles.
The card is powered when is inserted into the connector.
Entry into the detector loop is protected against over voltage.
Automatic readjustment.

CARD INSTALLATION

Before proceeding with the installation of the card unplug the supply voltage.
Insert the card into the indicated card connector (Card detector or a similar name)
Detector should be installed as close as possible to the loop and the connection must be made with twisted cable.
Supply the activation box, the detector will automatically enter into adjustment process.

FUNCTIONING

The magnetic detector sensor loop generates a magnetic field that is altered by a sudden change caused by the proximity of a metallic mass (vehicle) that impinges on it. This change in the magnetic field causes the detection of the vehicle, invoking an action accordingly.

Input pulse	OFF	ON	OFF	OFF	OFF
Presence	OFF	ON	ON	ON	OFF

A vehicle detection invoke two actions (if are allowed), generate an input pulse (i.e.: to open a door) and a presence signal during the detection over the loop.

Red Led indicates a vehicle is detected.

The readjusting button is used to readjust the detector to any changes that may be occurred around or over the loop and that can affect it. The detector enter into readjustment mode automatically when its power connected, but pressing the button you can cause an adjustment whenever is necessary.

CONDITIONS TO BE TAKEN INTO ACCOUNT

When two different loop detectors are close, the magnetic field of one interferes on the other. To avoid this phenomenon selects a different frequency of oscillation in each individual detector and put the loops as far as possible (minimum 1 meter).

TERMINAL DESCRIPTION

- 1 Connection to the sensor Loop
- 2 Connection to the sensor Loop
- 3 Input pulse (Open collector output)
- 4 Presence (Open collector output)

The card connection has the same outputs and fits exactly to QDM control pannel

GENERAL SELECTOR

OPTION 1- Selects a permanent or unlimited detection

- ON** After 25 minutes of a detected vehicle, the sensor disables the presence output
- OFF** Detection is permanent or unlimited during the vehicle detection

OPTION 2/3- Select the deactivation delay of the presence exit

- OFF - OFF** - No delay
- OFF - ON** - 2 sec delay
- ON - OFF** - 5 sec delay
- ON - ON** - 10 sec delay

OPTION 4/5/6 - Select the magnetic detector sensibility, Range: 1 Min. 8 Max

- OFF - OFF - OFF** - Level 1 (MIN)
- OFF - OFF - ON** - Level 2
- OFF - ON - OFF** - Level 3
- OFF - ON - ON** - Level 4
- ON - OFF - OFF** - Level 5
- ON - OFF - ON** - Level 6
- ON - ON - OFF** - Level 7
- ON - ON - ON** - Level 8 (MAX)

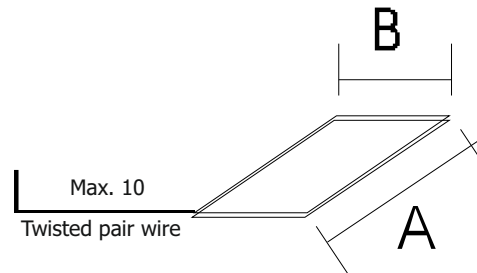
TECHNICAL SPECIFICATIONS

Power	12V connector to controller
ON/OFF output current	17mA /15mA
Output	Open collector until 100mA
Option selection	Permanent detection
	Deactivation delay
	Sensibility
	Frequency oscillation
	Function to activate
Frequency oscillation	40KHz a 140KHz
Sensibility	8 level selection
Loop	60 a 120uHm
Working temperature	-20 a +85°C
Dimensions	85 x 41mm

LOOP INSTALLATION

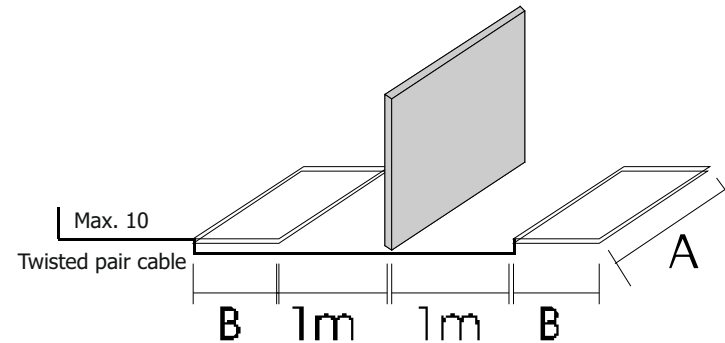
A proper loop and detector configuration will ensure an adequate detection system.

To make a loop, use insulated wire with a section of 1 to 1.5 mm². The number of loops depends on the chosen rectangular, see next table. Bury the loop so that their geometry is not altered by the passage of vehicles. The depth of the groove where we put the loop must be between 3 and 5 cm. The loop must be installed with longer sides at angles rights in the direction of traffic. From the loop until the sensor the cable must be twisted to prevent its influence in the detection (minimum 20 rounds per metre). Connect the twisted cable to the connection terminal for this purpose; the length of this section should not exceed 10m, because the sensitivity of the detector decreases with it.



A x B (meters)	Nº of loops
1 x 0,5	5
1,5 x 0,75	4
2 x 1	4
2,5 x 1,25	4
3 x 1,5	3
3,5 x 1,75	3
4 x 2	3
4,5 x 2,25	3
5 x 2,5	2

SERIAL CONNECTION OF TWO LOOPS



A x B (meters)	Nº of loops
1 x 0,75	From 2 to 4
2 x 1	From 2 to 4
2,5 x 1,25	From 2 to 4
4 x 2	From 2 to 4
5 x 2,5	From 1 to 3

TRAFFIC DIRECTION

