



**SISTEMI PER LA GESTIONE DEL TRAFFICO - TRAFFIC CONTROL SYSTEM**



**SPECIAL VEHICLE IDENTIFICATION SYSTEM**

**GENERAL CHARACTERISTICS**

Track 100 and Track 200 are vehicle identification systems designed for the control and priority of public means of transport, buses, and any other vehicle that needs priority on a traffic lights installation. Track 100 is a single frequency system, while Track 200 can work with four different codes of frequency, giving four possible identifications both for receiver and for transmitter modules. Transmitter module is installed inside the vehicle and supplied by vehicle battery. Receiver is connected to an inductive loop spire placed under the road surface: the loop interacts with the transmitter through inductive action. The working mode is simple: the transmitter sends a lowpower message that is picked up and controlled by the receiver which supplies an output signal. This system allows for identification of vehicles fitted with the transmitter device, while unequipped vehicles are ignored by the receiver.

**TRANSMITTER**

The Transmitter Track 100 and Track 200 is studied for an easy connection to the frame of any vehicle and can operate with any environmental condition, even the most difficult. The power produced is considerable low and therefore regular concerning radio emission.



*Transmitter*



**RECEIVER**

The Receiver receives and controls the signal emitted by the transmitter. If it receives the signal within the inductive field, the receiver will supply an exit signal for the whole period of vehicle presence. The receiver is able to classify 4 different codes, as additional controls have been foreseen for each frequency.



*Receiver*

**IMPLEMENTATIONS**

The output signal of the receiver can be used to open a gate, a barrier automatically or allow priority in a traffic control system. Output signals are in function of the frequency used, and it is possible to enable them connecting or disconnecting the operating frequency.



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#### TECHNICAL DATA

##### Receiver

Track 100	Single code (one frequency)
Track 200	Multiple codes (four frequencies)
Coil	
Loop tuning range:	10-1000 $\mu$ H
Sensitivity:	3 steps (max, norm, min)
Receiver frequency:	133 kHz
Output interface:	1 relay for each code
Indications:	Receivers are provided on the front side of: - 1 green LED (indicating the starting up) - 1 red LED (detector) - 1 red LED for each frequency and channel
Protection:	Insulated loop and a protecting zener diode at loop input
Output relay:	6 A @ 250 Vca

##### Mechanical details

Dimensions:	Height 113 mm, width 56 mm, depth 127 mm
Connector:	Single on the back side with 11 pin (86CP11)
Coils	length max 300 mt
Operating temperature:	- 10°C + 70°C
Non condensing circuit:	yes

##### Transmitter

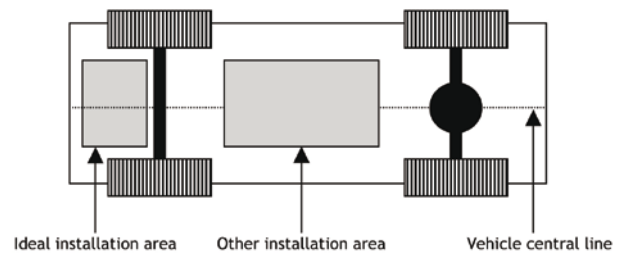
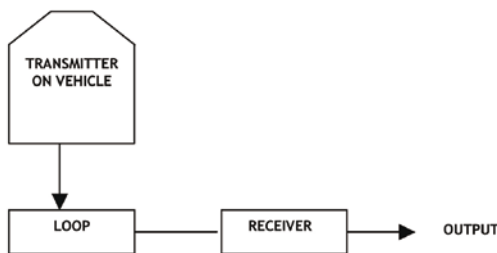
Track 100:	Single code (one frequency)
Track 200:	Multiple codes (four frequencies)
Transmitter frequency:	133 KHz (long term stability)
Method of code selection:	Through single frequencies: - 1847 Hz - 1511 Hz - 1279 Hz - 1108 Hz
Frequency selection:	4 external wire combinations (only for Track 200)
Power supply:	11 - 40 Vcc @ 10mA

##### Mechanical details

Material:	Polypropylene
Dimensions:	Cone shaped base $\varnothing$ 85 mm, height 87 mm
Mounting:	Single bolt $\varnothing$ 20 mm
Connection:	Connected cable
Detection speed:	0 - 120 kph
Detection height:	0,1 - 2,0 meters
Operating temperature:	- 10°C + 70°C
Non condensing circuit:	yes

##### APPLICATIONS

Traffic priority systems  
Selective entrances  
Industrial automations



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