

TRACK 200



TRACK 200 TRANSMITTER



TRACK 200 RECEIVER

FEATURES

Reliability:

Track 200 has been tested to speeds up to 140km/h proving reliable operation at high and low speeds.

All vehicles:

Track 200 is suitable for all sizes of vehicles from fork-lifts to heavy articulated vehicles. The receiver operates to a distance of >1.5 metres above the roadway.

Rugged:

The Track transmitter is totally sealed and suitable for the harshest environments.

Track 200 is a compact vehicle identification system designed for the control of moving vehicles.

The transmitter is a vehicle battery powered device that is fitted to the undercarriage of the vehicle. The receiver is connected to a conventional inductive loop buried below the roadway surface.

Energy transfer from the transmitter is by inductive (transformer) action. The transmitter emits a low power signal that is received and verified by the receiver, which responds with a control output

The system allows for the positive identification of vehicles fitted with the identification device and the receiver ignores unequipped vehicles.

The output of the receiver is used to automatically open a control barrier, or gate or to implement priority traffic control

PART NUMBERS

436FT0200	T200 Transmitter	11- 40V DC
436FT0202	Track 200 Receiver	240V AC

APPLICATIONS

- Road Traffic Priority applications
Emergency vehicle priority at traffic intersections, tolls, and similar.
- Selective Access control applications
VIP Car park access, rising bollards or other selectively restricted areas
- Industrial Automation applications
Fleet tracking
Automation of loading processes

Detector loop compatible:

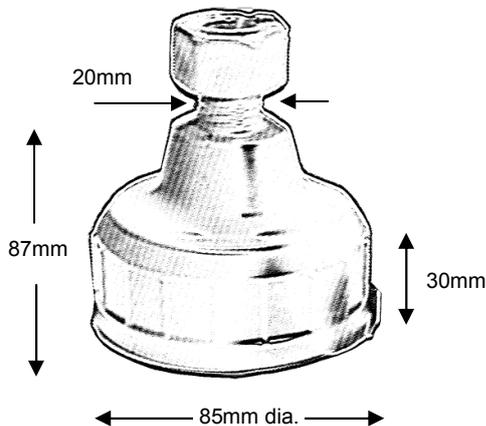
The Track 200 Receiver uses a standard detection loop as an antenna and will function with most loops installed for loop detectors.

Multiple codes - The Track 200 Receiver can differentiate between 4 different unique codes selectively transmitted from the vehicle transmitter.

TECHNICAL DETAILS

Transmitter

Transmitter Frequency:	133 kHz (carrier)
Modulation method:	FM Deviation \pm 600 Hz
Coupling to Rx antenna:	Inductive transformer action
Reading height:	>1.5 metres on max sensitivity within 30° of horizontal
No. of Codes:	4 (four) Code 1 = 1847Hz Code 2 = 1511 Hz Code 3 = 1279 Hz Code 4 = 1108 Hz
Coding Method:	Two additional wires allow selection of the 4 codes
Power:	11 to 40V DC @ 10ma max.
Mechanical Data:	Transmitter is cone shaped Base diameter = 85 mm Height of cone = 87 mm
Mounting:	Single bolt mounting 20mm
Material:	Polypropylene - injection moulded
Cable:	2 core - 1.5 metres length
Operating temperature:	-10°C to +70°C



NORTECH
VEHICLE ID

TRACK 200

Receiver

Front Panel indications:	Green LED : Power on Red LED : "Detect" - transmitter detected 4 x Red LEDs : "Code 1 - 4" - Valid code detected
Front Panel controls:	Sensitivity selector MIN - MED - MAX
Demodulation method:	Phase locked loop demodulator
Transient protection:	Loop isolation transformer and Diode clamping
Antenna:	Standard Induction detector loop 10 μ H to 1000 μ H <i>(Does not "share" loop with a Vehicle detector)</i>
Loop Feeder:	Maximum 300 metres Twisted pair cable, 0.5mm square cross section, copper, multi strand
Output Relay:	N/O Relay Contact per code with common Rated at 230V AC – 6A
Output duration:	Presence - output is maintained as long as transmitter is present. 1 second turn-off delay to prevent spurious signals as transmitter traverses nulls
Power:	230 / 240 V AC Mains input 2.5 VA max
Size of Housing:	113 mm (H) X 56mm (W) X 132mm (L) - excluding mating connectors
Mounting:	Free standing shelf mount
Connector:	11 Pin loop detector format connector Mains - 3 Pin VDE plug
Operating temperature:	-10°C to +70°C

ADDITIONAL ITEMS

VDE Mains lead	supplied
11 Pin wiring harness (1.5 metres)	supplied