

TRACK Automatic Vehicle Identification

PRODUCT DESCRIPTION

Based on inductive loop technology, track systems are superior vehicle identification systems designed to identify selected moving vehicles. The systems are suitable for a wide variety of applications such as easy and rapid moving vehicle access to parking and security areas that are protected by electronically controlled barriers or gates. They are also ideal for the identification of public transport or emergency vehicles at traffic intersections.

Durable water resistant transmitters are fitted to the chassis of the vehicles, and a receiver is connected to a conventional loop buried in the road surface. The system enables vehicles to be identified at high speed without any performance irregularities. As a vehicle passes over the road loop, its transmitter sends a low power signal that is detected and verified by the receiver, which in turn responds with the appropriate control output.

There are two versions of Track available. Track 100 is used for detecting the same code for all vehicles and directly operating a gate or barrier. Track 2000 uses a unique code for each vehicle, enabling the individual identification of specific vehicles. Track 2000 can be used with an access control system to enable individual vehicles to be validated and tracked through monitored access points.



FEATURES

Track100

Transmitter

- Uses a batch code system i.e one code per system
- Small rugged water resistant units, suitable for the harshest environments
- Easily attached to vehicles
- Powered by vehicle battery

Receiver

- Operates at speeds of up to 120km/h
- Responds with a control output. The output of the receiver may be used, for example to open a barrier or gate, or to allow priority in a traffic control situation
- On sensing a valid transmitter within the loop field, the receiver will continue to provide a relay output for the duration of the vehicle presence
- Vehicles without transmitters are ignored by the receiver

Track2000

Transmitter

- Track2000 has an unlimited range of unique pre-programmed transmitter codes to identify and prioritise vehicles
- Small rugged water resistant units, suitable for the harshest environments
- Easily attached to vehicles
- Powered by vehicle battery

Receiver

- Identify vehicles at speeds of up to 180km/h
- Capable of processing pre-programmed transmitters codes
- Outputs the code in an industry standard format; Wiegand, RS232 or Clock & Data
- Serial communications facilitates automatic data collection for improved access management



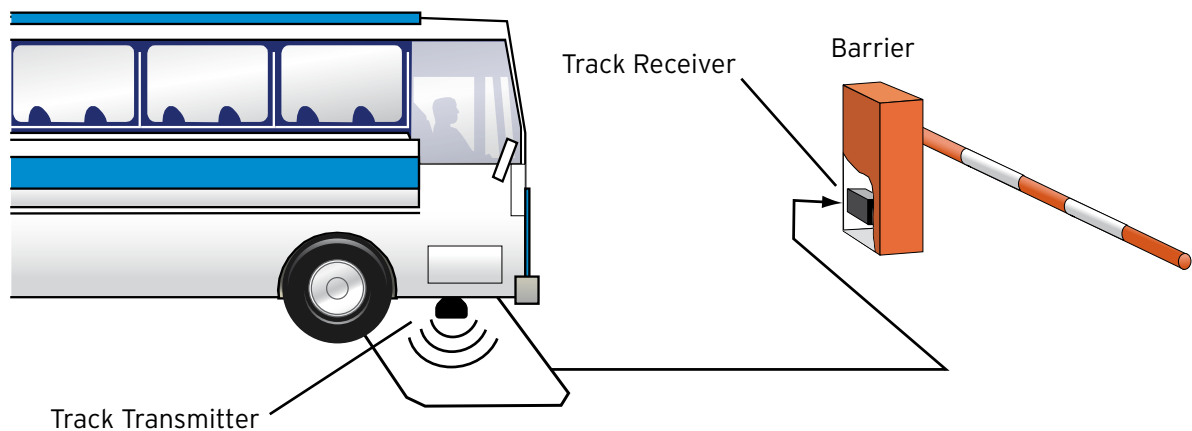
APPLICATIONS

- Traffic priority for ambulances, buses or specialist vehicles
- Selective access at ports, airports, hospitals, etc.
- Industrial automation such as automatic roller shutter doors
- Vehicle access control for distribution centres, industrial sites, etc.

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Technical Details

Typical Configuration for Track



Specifications

Receiver

| | |
|------------------------|---|
| Codes: | Track100: Single code per system Track2000: Unlimited codes |
| Loop tuning range: | 10 - 1000 μ H |
| Receiver frequency: | 133 kHz (carrier) |
| Output configurations: | Track100: Single relay Track2000: Serial Output: (RS232, Wiegand, Clock & Data) |
| Indications: | Track100: Green LED - Power Red (detect) LED - Transmitter detection Red (code) LED - Valid code Track2000: Red LED - Power Yellow (PRESENCE) LED - Transmitter detection Green LED: Valid code format |
| Protection: | Loop isolation transformer and zener diode clamping |
| Power requirement: | Track100: 230V AC +/- 10% Track2000: 24V DC +/- 10% (100mA min @ 24V DC) |
| Operating temperature: | -10°C to 70°C (circuit sealed against condensation) |

Mechanical Details

| | |
|------------------|---|
| Material: | High Heat ABS blend |
| Dimensions (mm): | Track100: 113 x 56 x 127 (H x W x D) Track2000: 76 x 40 x 78 (H x W x D) |
| Mounting: | Track100: Shelf Track2000: Shelf or DIN-rail socket |
| Connectors: | Single rear mount II-pin submagnal |

Transmitter

| | |
|---------------------------|--|
| Codes: | Track100: Single code per system Track2000: Unique code per transmitter |
| Transmitter frequency: | 133kHz (carrier) |
| Coding method: | Track100: Batch Code Track2000: Unique code per transmitter |
| Method code selection: | Factory Preset |
| Power supply: | Track100: 11 - 40V DC @ 10mA Track2000: 11 - 40V DC (1 VA @ 24V DC) |
| Environmental protection: | Sealed - waterproof |
| Operating temperature: | Track100: -10°C to +70°C Track2000: -40°C to +80°C |

Mechanical Details

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|------------------|--|
| Material: | Polypropylene |
| Dimensions (mm): | Cone shaped - 85 x 87 (D x H) |
| Mounting: | Single bolt Track100: 20mm hole Track2000: 22mm hole |
| Connection: | Integral cable - 2 core |
| Reading speed: | Track100: 0-120kph Track2000: 0-180kph |
| Reading height: | up to 1.2 meters (refer to user manual) |

Ordering Information

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|-----------|--|
| T100/TX: | Single code transponder, vehicle chassis mount with bracket |
| T100/RX: | Single code receiver |
| T2000/TX: | Uniquely coded transponder, vehicle chassis mount with bracket |
| T2000/RX: | Multi-code receiver |
| T1-BR: | Track transponder chassis mounting bracket |