NORTECH DETECTION

TRACK 2000 TRANSMITTER

TRACK 2000 RECEIVER

Unique Code Vehicle ID Transmitter and Receiver

TRACK 2000

The compact Track 2000 system has been designed to identify moving vehicles.

Track 2002 comprises of a Transmitter that is fitted to the undercarriage of any vehicle and a Receiver connected to a conventional inductive loop antenna buried in the roadway.

The transmitter transmits a low power signal, which is received and verified by the receiver. The receiver is capable of processing an unlimited number of pre-programmed, unique transmitter codes that it outputs in RS232C and 34Bit Wiegand format.

PART NUMBERS

480FT0200	T2000 Transmitter	11- 40v DC
401FT0202	Track 2000 Receiver (RS232C)	24V DC

APPLICATIONS

- Road Traffic applications
  Emergency vehicle priority at traffic intersections, tolls, speed and travel time logging.

- Public Transport Tracking
  Bus Location Systems

- Selective Access control applications
  VIP Car park access, rising bollards or other selectively restricted areas

- Industrial Automation applications
  Fleet tracking
  Automation of loading processes

FEATURES

Reliability:

Track 2000 has been tested to speeds up to 200 Km/H, proving reliable operation at high and low speeds.

All vehicles:

Track 2000 is suitable for all sizes of vehicles from fork-lifts to heavy articulated vehicles. The receiver operates to a distance of 1.2 metres above the roadway.

Rugged:

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

Encoding:

The Track 2000 transmitter is factory programmed with a unique ID code.

Detector loop compatible:

The Track 2002 Receiver uses a standard detection loop as an antenna and will function with most loops installed for loop detectors.

Interface:

The Track 2000 Receiver can interface to most access control equipment with RS232C and 34-Bit Wiegand formats.

TRACK 2000

Transmitter

Transmitter Frequency:	133 kHz (carrier)
Coding method:	Unique 32 bit code per transmitter (factory set)
Coupling to Rx antenna:	Inductive transformer action
Reading height:	0.1 → 1.2 metres within 30° of horizontal
Power:	11 to 40V DC @ 10ma max.
Mechanical Data:	Transmitter is cone shaped Base diameter = 85 mm Height of cone = 87 mm
Mounting: Material:	Single bolt mounting 20mm Polypropylene - injection moulded
Cable:	2 core - 1.5 metres length
Operating temperature:	-40°C to +80°C
Environmental protection:	Sealed – waterproof
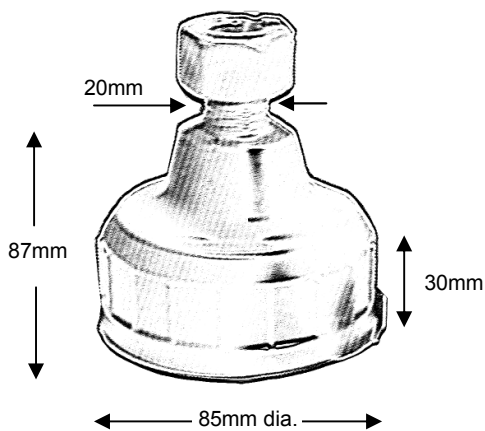
Receiver

Front Panel indications:	Red LED : Power on yellow LED : "Detect" - transmitter detected green LEDs : "Code" - Valid code detected
Front Panel controls:	none
Demodulation method:	Phase locked loop demodulator
Transient protection:	Loop isolation transformer and Diode clamping
Antenna:	Standard Induction detector loop 10 µH to 1000µH *(Does not "share" loop with a Vehicle detector)*
Loop Feeder:	Maximum 300 metres Twisted pair cable, 0.5mm square cross section, copper, multi strand
Output configuration:	Serial data - RS232 and 34Bit Wiegand format.
Power:	24 V DC ± 10% 2.4 VA max
Operating temperature:	-10°C to +70°C
Size of Housing:	76 mm (H) X 40 mm (W) X 78 mm (L) - excluding mating connectors
Mounting: Connector:	shelf mount or DIN Rail socket 11 Pin loop detector format connector
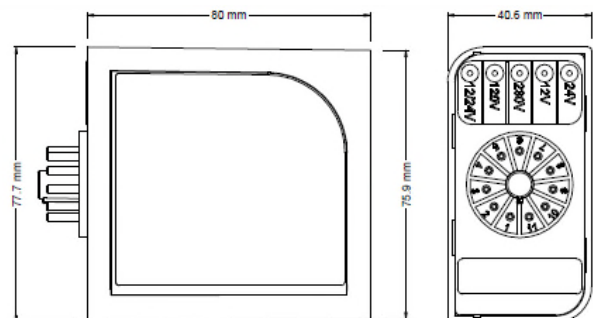
301FT0041	1 metre flying lead
CTR 119090	11 pin Relay Base