

NFC Driver ID: Linking Drivers and Vehicles

Geotab has incorporated the latest in RFID technologies - Near Field Communications (NFC) - to deliver Driver Identification for drivers that switch between vehicles. No matter what vehicle is being driven, the Driver ID technology allows management to have a full view into their drivers activity - generating reports, rules, and exceptions by driver or vehicle.



World's 1st telematics NFC Driver ID with IOX:

Simultaneous connections and communications can occur with multiple devices, such as Garmin, Iridium, and HOS.

Driver ID can be combined with vehicle immobilization:

A valid Driver ID key-fob must be touched to the reader before the vehicle will start.



The Cloud:

With one simple touch of the NFC fob, vehicle operators can quickly, easily, and securely transfer their driver identification information up to the cloud.

Simple install:

The NFC Driver ID solution can be setup in minutes, as it connects to the GO device IOX.

Scoring reports:

Associating drivers with the vehicles they are in also allows for the software to generate driver based score reports - a unique feature in today's telematics industry.



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GEOTAB
management by measurement

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IOX-NFC



IOX-NFC

The Geotab GO6™ device is the world's only expandable plug-&-play vehicle telematics platform that allows for unique IOX™ expandability. Geotab has integrated Near Field Communications (NFC) to deliver simple Driver Identification where many drivers may operate pooled vehicles.

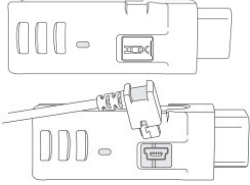
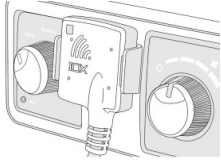
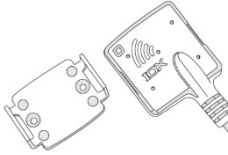



Top Features

- Plug & Play
- Identifies drivers to vehicles
- Enables driver based reporting
- Ties vehicle immobilization to Driver ID (utilizing HRN-RELAYKIT)

Harness Technical Specifications

Weight	170 g
Size	<ul style="list-style-type: none"> ▪ Antenna portion: 45mm x 50mm x 13mm ▪ Connector portion: and 30mm x 53mm x 15mm ▪ Cables: 1 m, 300mm
Housing	Flame retardant black ABS
Interfaces	CAN: 500 Kbit/s; Daisy chain; Ground switch
Frequency Range	13.56MHz
Power Output	12V/24V
Power Consumption	<ul style="list-style-type: none"> ▪ Running Mode: 100mA ▪ Sleeping Mode: 1.1 mA
Connectors	<ul style="list-style-type: none"> ▪ Keyed 5-pin mini-USB type-B plug: Daisy chain power and CAN in. ▪ Keyed 5-pin mini-USB type-B socket: Daisy chain power and CAN out. ▪ 2-pin grounding socket (molex connector)
Installation	<ul style="list-style-type: none"> ▪ Keyed mini-USB plug connects to GO6™ or another IOX™ harness. ▪ Immobilizer module connects to 2-pin socket

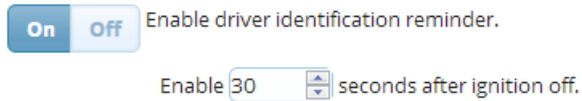
Installation Instructions

<p>Start with the Geotab GO6™ device unplugged from the vehicle. Remove the blue IOX™ expansion port cover from the GO6™ and plug the 90° USB connector of the IOX™ into the port. Secure the USB connector using a zip tie, being careful not to over tighten it, damaging the USB.</p> <p>Note: The USB can only be inserted in one orientation (shown in image).</p>	
<p>Locate an appropriate spot to mount the NFC reader within safe reach of the driver and where it will not interfere with the safe operation of the vehicle. Keep the routing of the wiring harness in mind while choosing a location for the reader.</p>	
<p>The NFC reader comes with a convenient mounting bracket that can either be screwed in place (screws provided) or taped in place (tape provided). The reader itself is then snapped into the bracket.</p>	
<p>Once your connections to the IOX-NFC have been made, connect the GO6™ to the vehicles OBDII connector.</p> <p>Tag verification:</p> <p>To test the NFC installation touch a valid NFC tag to the reader - the Green LED on the reader will flash twice when the tag is read. For additional tags touch each tag one at a time to the reader - the LED will flash twice for each tag read.</p> <p>Once an immobilization relay kit has been installed and the feature activated in MyGeotab you must touch a valid ID tag in order to start the vehicle. Failure to touch a valid tag prior to starting will cause the GO6™ to beep continuously and the vehicle will not start until a valid tag is touched. After a failed attempt the NFC resets (stops beeping) in about 30 seconds.</p>	
<p>Allow the vehicle to run until each of the LEDs on the GO6™ (RED, GREEN and BLUE) have illuminated. Keep in mind your GO6™ will now be in debug mode for two ignition cycles.</p>	
<p>Using a PC or Smart phone that has internet access, navigate to http://myinstall.geotab.com. Fill in your name, email address, and the Geotab serial number and click on "Check".</p>	

Immobilization & Driver feedback

This section is only required if you are installing an immobilizer relay kit along with your IOX-NFC. Prior to the installation you must go to the MyGeotab database where the device is registered, select "Vehicles", then the device you are installing. Next, select "Driver Feedback" and set "Enable driver identification reminder" to ON (see below).

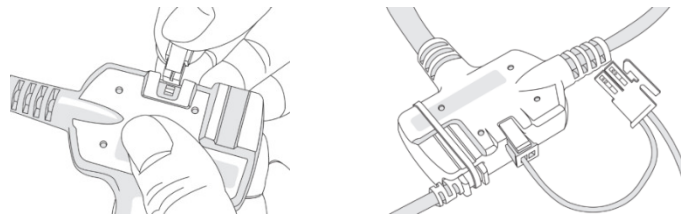
If this feature is not turned on the immobiliser option will not function correctly.



Hardware

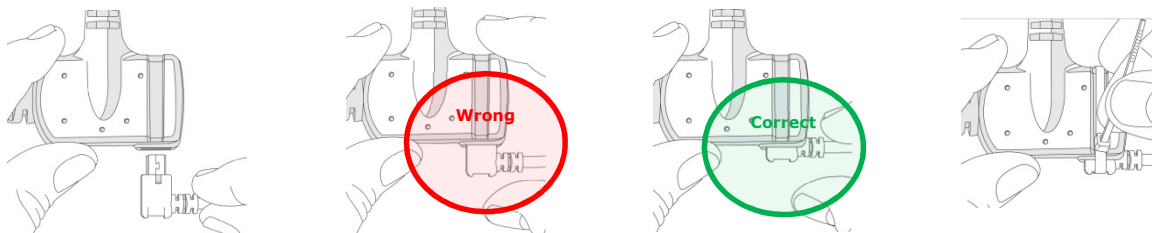
IOX-NFC has a junction box that has a two pin connector. This is where the **immobilization harness adapter** gets plugged in. Immobilization harness adapter is now included in the **HRN-RELAYKIT**.

The small black connector end of the adapter gets plugged into IOX-NFC. The other white two pin connector fits into the HRN-RELAYKIT. The fused wire coming from the adapter must be connected to a true ignition source (a true ignition source is live in the ACC RUN and CRANK positions). Use the installation instructions contained in the HRN-RELAYKIT to complete the installation.



Connecting additional IOX™'s to an IOX-NFC

When connecting additional IOX™'s to an IOX-NFC, it is important to be sure the USB connector is seated correctly and completely. Lastly it must be secured with a zip tie.



Termination Shunt

You may notice your IOX™ comes with a termination shunt installed in the expansion port. If you are installing more than one IOX™ in a daisy chain you will need to remove the shunt from each device in line with the exception of the "LAST" IOX™ connected. That shunt must remain in the last IOX™ and should be secured with a zip tie.

The use of the shunt in the LAST IOX™ is necessary for the GO6™ to learn and configure the IOX™ as effectively as possible.



Note: Failing to install the shunt in the last IOX™ could affect IOX™ configuration, it is recommended you secure the shunt using a zip tie if not already done.

Compliance

FCC: 2AAFQ-NFC1

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Note: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

IC: 11140A-NFC1

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.