

Immobilizer / Authorized driving scenario

These instructions will help user to understand authorized driving and immobilizer scenarios logics, connection scheme and configuration.

1. Introduction

Immobilizer Scenario. Vehicle can be used only if iButton is connected. In this scenario iButton list is not used. To pass immobilizer user needs to connect iButton. DOUT is controlled by scenario to manage relay, buzzer, LED, etc.

Authorized Driving Scenario. Vehicle can be used only for specific iButton owners (specified in iButton list). To pass this scenario driver must connect iButton from predefined iButton list. DOUT is controlled by scenario for user needs to manage relay, buzzer, LED, etc.

2. Immobilizer relay connection

Standard automotive relay is required for such solution. Depending on vehicle type you will need 12V or 24V relay.

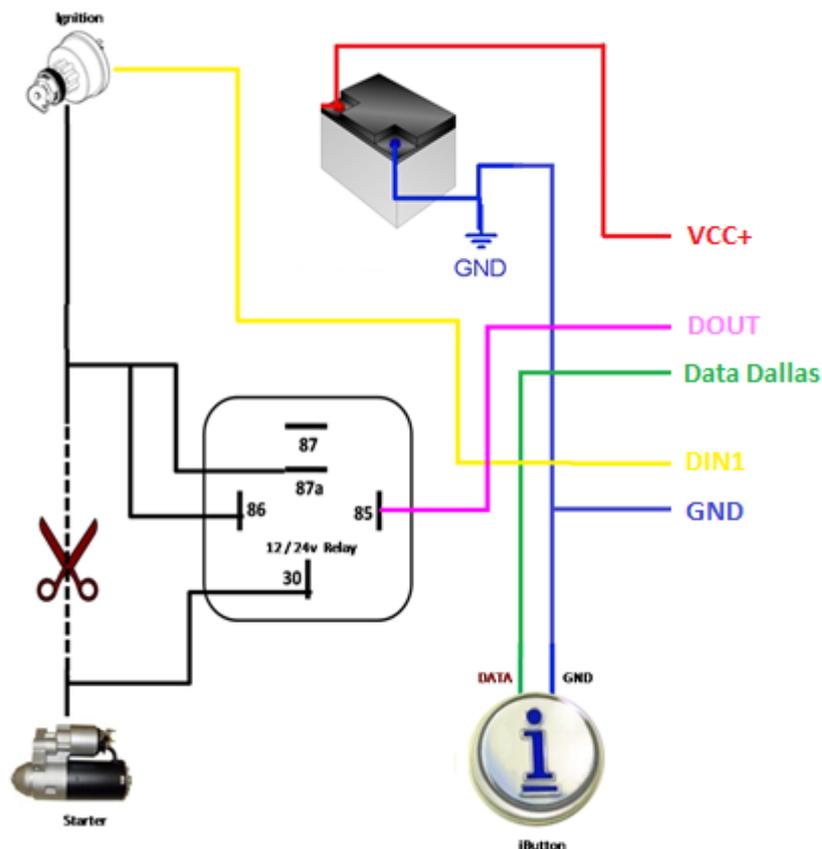


Figure 1. Connection scheme

3. Functionality description

Immobilizer

DOUT is continuously OFF. DOUT turns ON if Ignition turns ON (configured igniton source=1). After iButton ID accepted, DOUT turns OFF → starter powered ON and driver is able to run vehicle engine. DIN1 (ignition) can be turned OFF for no longer than 30 seconds, otherwise immobilizer must be repeated.

Authorized driving

DOUT is continuously OFF. DOUT turns ON if Ignition turns ON (configured igniton source=1). After iButton authorization is passed (iButton ID matches with iButton ID from list), DOUT turns OFF → starter powered ON and driver is able to run vehicle engine. DIN1 (ignition) can be turned OFF for no longer than 30 seconds, otherwise authorization must be repeated.

4. Configuration

Immobilizer and authorized driving features configuration can be found:

Features → Scenarios → Immobilizer/Authorized driving

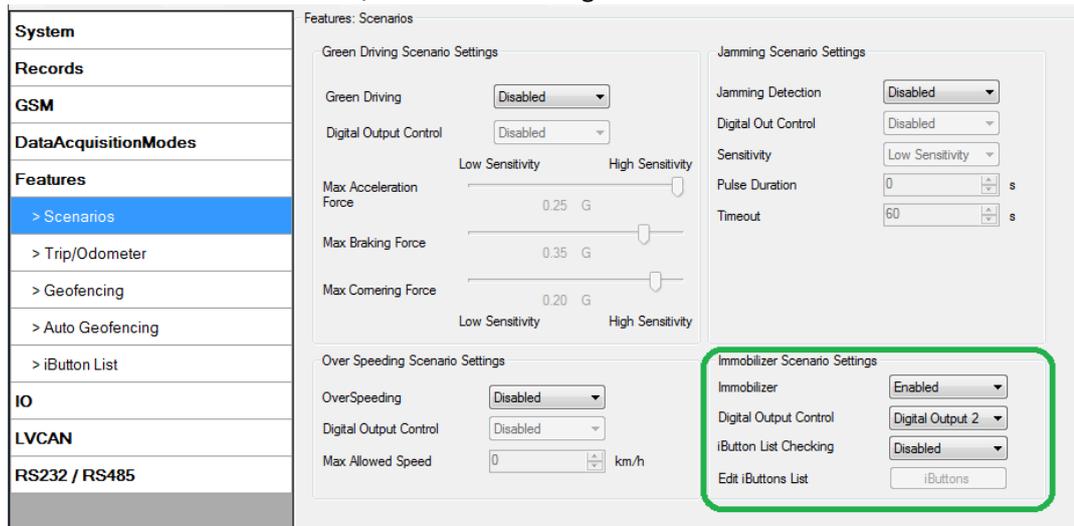


Figure 2. Configurator window for FM11YX or FMA1x0 group devices.

5. FM device modifications

To get informed about differences between FM models, configuration options and wiring schemes we recommend to check latest documentation. Press on FM model for latest downloads.

FM group	FM1		FMA		FM5		FMB		FM 3G	
FM series	FM11	FM12	FMA1	FMA2*	FM53	FM55	FMB1*	FMB6	FM3	FM6
FM model	FM1100 FM1110 FM1120 FM1122 FM1125	FM1202 FM1204	FMA110 FMA120	FMA202 FMA204 FMA206	FM5300	FM5500	FMB100 FMB110 FMB120 FMB122 FMB125	FMB630	FM3620 FM3622	FM6320

Figure 3. List of FM devices with supported immobilizer/authorized driving functionality

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