

Panic Button Connection

1 Introduction

1.1 About the Functionality

A panic button is a peripheral used to increase the safety of the vehicle, the driver and the cargo. In case of an emergency, the driver can quickly send an emergency message to the manager. The message is received in the fleet management platform or by SMS.

Detailed descriptions of tracking devices and functionalities can be found on our documentation website: doc.ruptela.it.

1.2 Legal Information

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1.3 Compatibility

The panic button is compatible with the following devices with the newest firmware version:

- HCV5
- LCV5
- Pro5
- Trace5
- FM-Tco4 HCV
- FM-Tco4 LCV
- FM-Pro4
- FM-Eco4
- FM-Eco4 RS T
- FM-Eco4 S
- FM-Eco4 T

1.4 Contact Information

General enquiries

Website: ruptela.com

E-mail: info@ruptela.com

Phone: +370 5 2045188

Technical support

E-mail: support@ruptela.com

Phone: +370 5 2045030

1.5 Document Changelog

Version	Date	Modification
1.0	2020-04-03	Initial draft.
1.1	2020-10-26	Updated: Compatibility. Added: Connection to 5 th Gen Advanced Family Devices.

1.6 Notations

The following notations are used in this document to highlight important information:

Bold text

Used to indicate user interface elements or for emphasis.

Italic text

Used to indicate items that belong to a list and can be selected, also for examples identification.

Note



Used to highlight important information or special conditions.

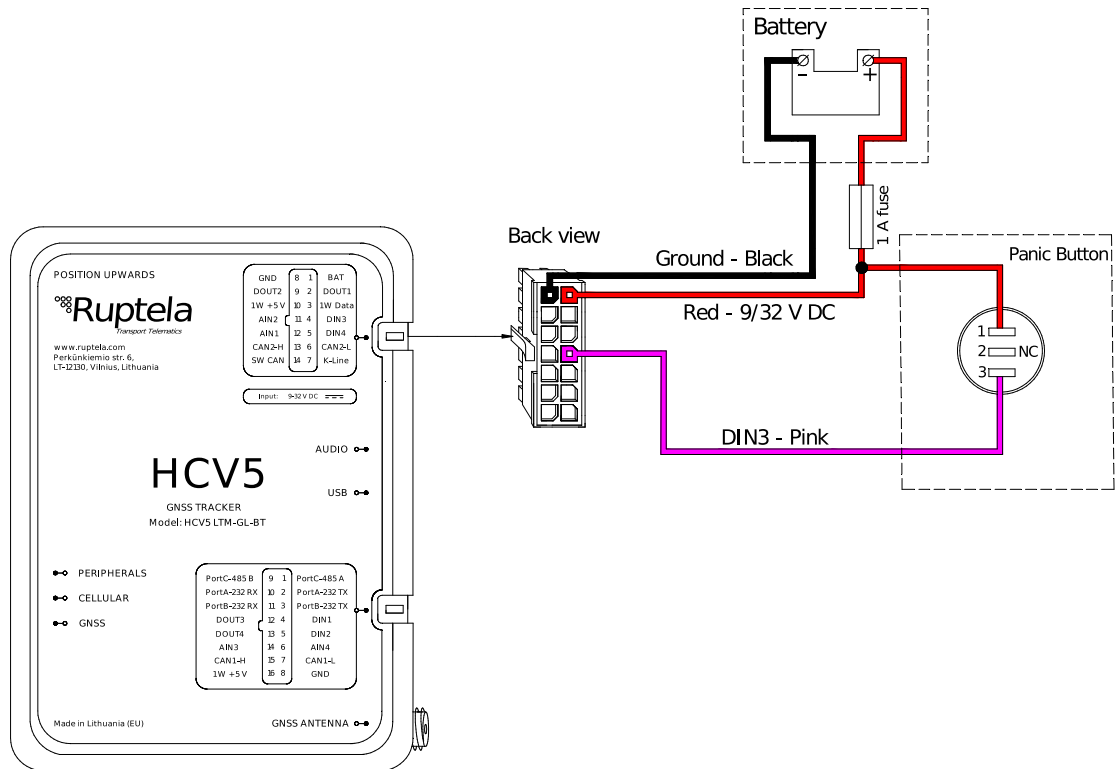
1.7 References

Tutorial on how to connect a panic button: [Panic button connection](#)

2 Connection

2.1 Connection to 5th Gen Advanced Family Devices

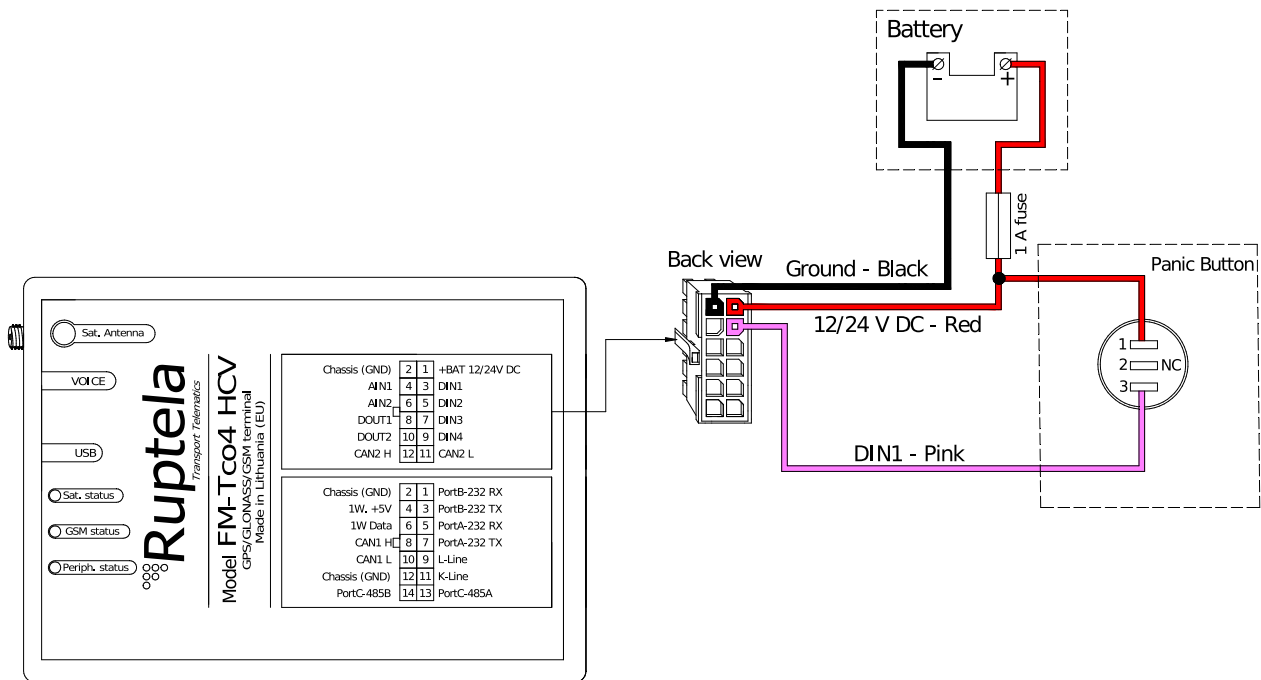
Connect the panic button to your tracking device as follows:



Make sure that the button connections are properly insulated. We recommend using specialized insulation methods that ensure reliable long-term performance under harsh field conditions.

2.2 Connection to 4th Gen Advanced Family Devices

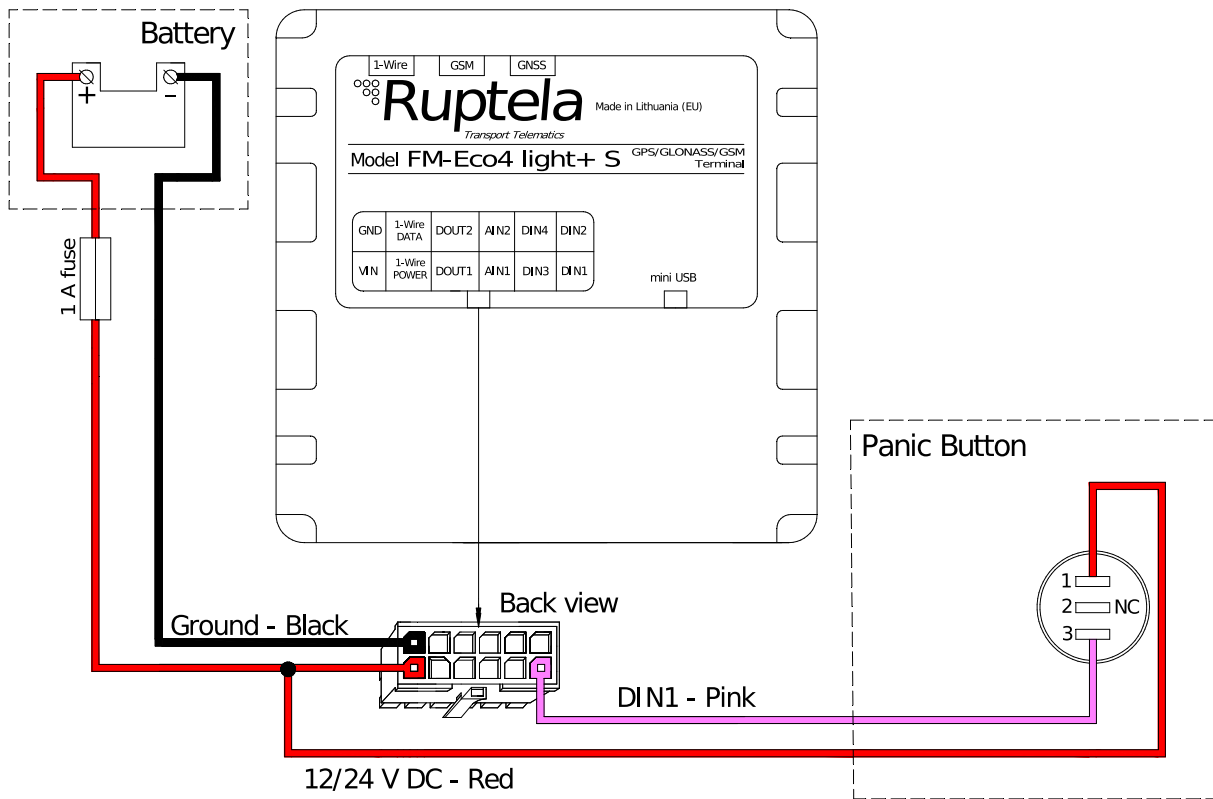
Connect the panic button to your tracking device as follows:



Make sure that the button connections are properly insulated. We recommend using specialized insulation methods that ensure reliable long-term performance under harsh field conditions.

2.3 Connection to Eco Family Devices

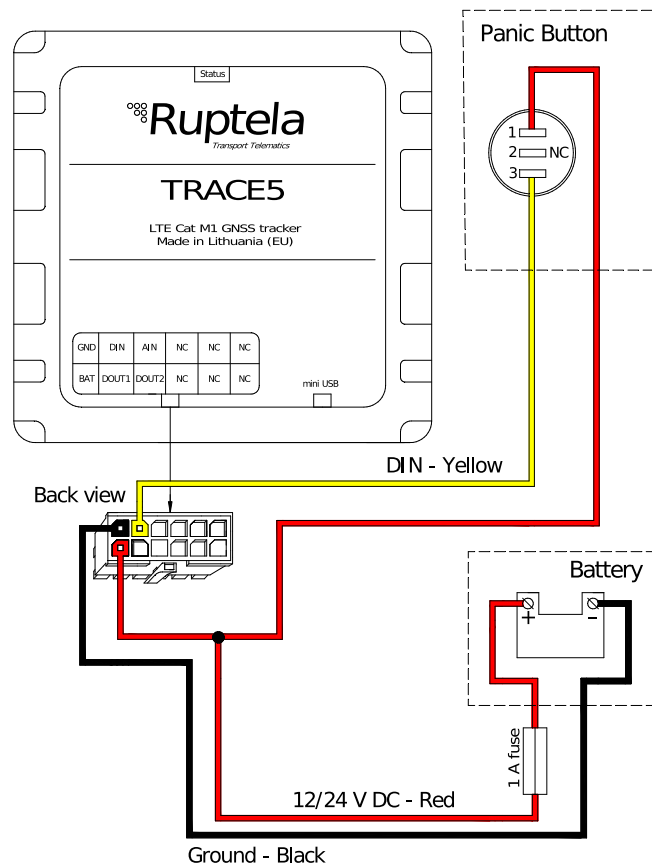
Connect the panic button to your tracking device as follows:



Make sure that the button connections are properly insulated. We recommend using specialized insulation methods that ensure reliable long-term performance under harsh field conditions.

2.4 Connection to Trace5 Devices

Connect the panic button to your tracking device as follows:



Make sure that the button connections are properly insulated. We recommend using specialized insulation methods that ensure reliable long-term performance under harsh field conditions.

3 Configuration

i This functionality requires the use of the advanced configurator.

3.1 Starting the Configuration

To start the configuration, follow these steps:

1. Open the advanced configurator. Select your tracking device.
2. Select the COM port to which your device is connected.
3. Click **Connect**.
4. Click the **Options** button in the **IO events** section to open the **IO Settings** window.

The screenshot shows the advanced configurator interface with several elements highlighted by red boxes and numbered callouts:

- COM7** (2): A red box highlights the COM port selection dropdown in the top left.
- Connect** (3): A red box highlights the 'Connect' button in the top left.
- Tco4 HCV** (1): A red box highlights the device selection dropdown in the top left.
- Options** (4): A red box highlights the 'Options' button in the 'IO events' section at the bottom right.

The interface includes sections for Global settings (Protocol, APN settings, Connection settings), Authorized numbers, Eco-Drive, Authorized IDs, Audio settings, Movement sensor sensitivity, GNSS selection, Geofencing, Towing detection, Impact detection, Identification string, and Profile settings (Sleep, Data sending, Data collection, 2G-3G, Operator list, IO events).

3.2 Configuring the Panic Button

Follow these steps to configure the panic button:

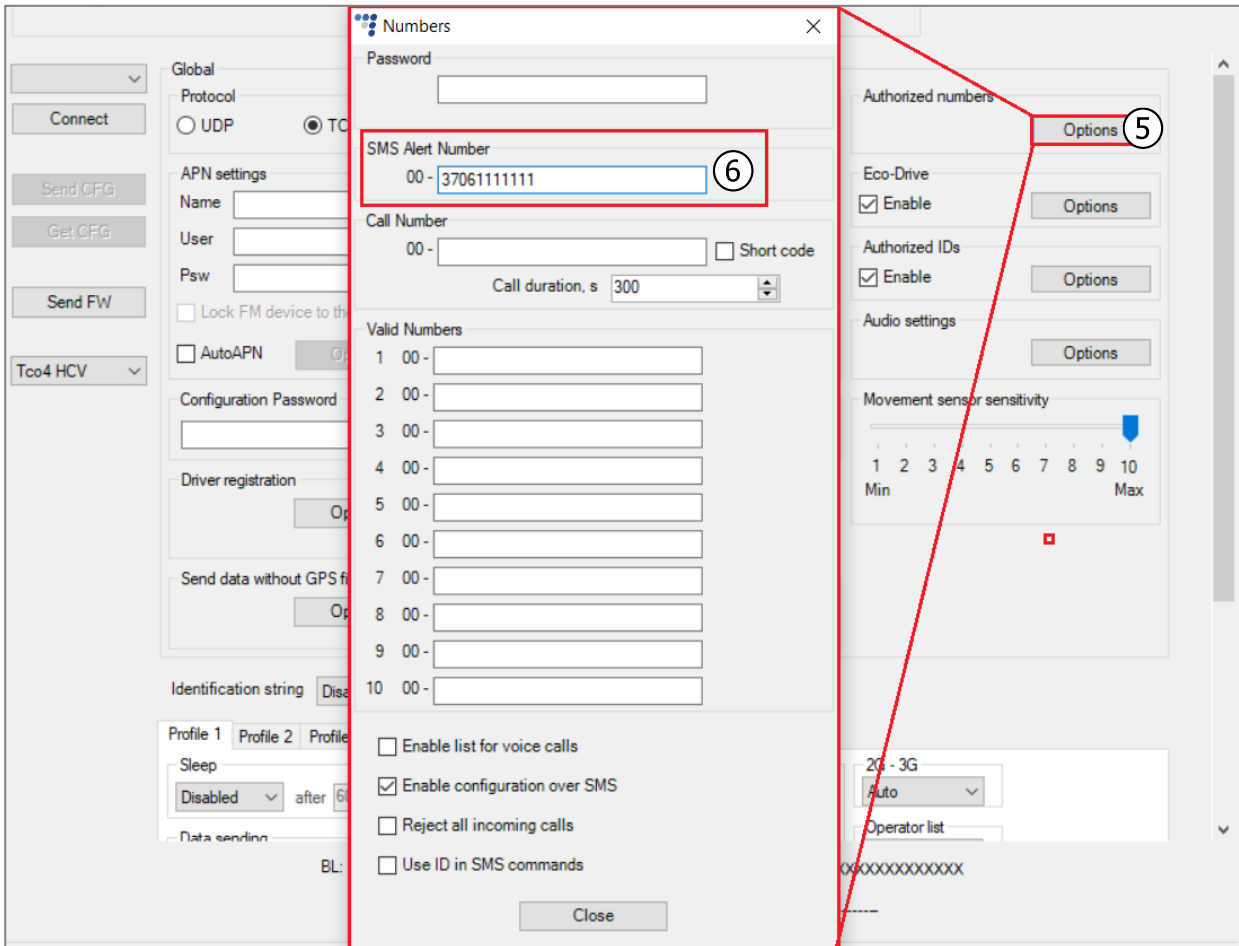
1. In the **IO settings** window select *DIN1*.
2. Make sure, that **Event on** is set on *Change* and **Priority** on *High*.
3. Enable SMS notifications by ticking **SMS Alert**.
4. In the fields **Event on high** and **Event on low** write what alert text will be sent, e.g. *Panic alarm initiated* and *Panic alarm called off*.

The screenshot shows the 'IO settings' window for a device. The configuration is as follows:

- IO properties:**
 - ID: **DIN1** (circled 1)
 - Level: 0
 - Delta: 0
 - Debounce: 1000 ms
 - Event on: **Change** (circled 2)
 - Include data only on event: (circled 2)
 - Priorit: **High** (circled 2)
 - Switch to: No Switch
- SMS Alert:** (circled 3)
 - Alert text:
 - Event on high: **Panic alarm initiated** (circled 4)
 - Event on low: **Panic alarm called off** (circled 4)
- Protocol selection:** Send I/O data with v1.1 protocol
- Interfaces:** PortA, PortB, PortC, K-Line, CAN, CAN2, 1-Wire (all disabled). DIN3 mode: Positive mode. DIN4 mode: Positive mode.
- Digital outputs:** DOUT1: Disabled, Inverted. DOUT2: Disabled, Inverted. Activation conditions button.
- IO counters:** Records on event: 2

Buttons at the bottom: Clear all IO, Enable common IO, Enable IO.

5. Go back to the main advanced configurator window and click the **Options** button in the **Authorized numbers** section to open the **Numbers** window.
6. In the **SMS Alert Number** enter the telephone number, to which panic button alerts will be sent.



3.3 Finishing the Configuration

To finish the configuration, close the **Numbers** window. Click **Send CFG** to send the configuration to the device.

The screenshot displays the Ruptela Configurator software interface. At the top, there is a menu bar with 'File' and 'Tools'. Below it, a 'Configuration file information' section shows 'Configuration source: Configurator', 'Target device: n/a', 'CFG Tag: [input field]', and 'Last edited: n/a'. The Ruptela logo is in the top right corner. The main interface is divided into several panels:

- Left Panel:** Contains a dropdown menu for 'COM8', a 'Disconnect' button, a 'Send CFG' button (highlighted with a red box), a 'Get CFG' button, a 'Send FW' button, and a dropdown menu for 'Tco4 LCV'.
- Global Panel:** Includes 'Protocol' (radio buttons for UDP and TCP), 'APN settings' (Name, User, Psw, Lock FM device to the SIM card, AutoAPN), 'Configuration Password' (input field), and 'Driver registration' (Options button).
- Connection settings Panel:** Includes IP1, Port1, IP2, Port2, SSL 1, SSL 2, Two servers, Periodical redirect, and SSL client authentication (SSL settings button).
- GNSS Panel:** Includes 'GNSS selection' (dropdown menu set to GPS+GLONASS) and 'Geofencing' (Options button).
- Authorized numbers Panel:** Includes an Options button.
- Eco-Drive Panel:** Includes an 'Enable' checkbox and an Options button.
- Authorized IDs Panel:** Includes an 'Enable' checkbox and an Options button.
- Audio settings Panel:** Includes an Options button.
- Movement sensor sensitivity Panel:** Includes a slider from 1 to 10 (Min to Max) with a blue arrow pointing to 8.