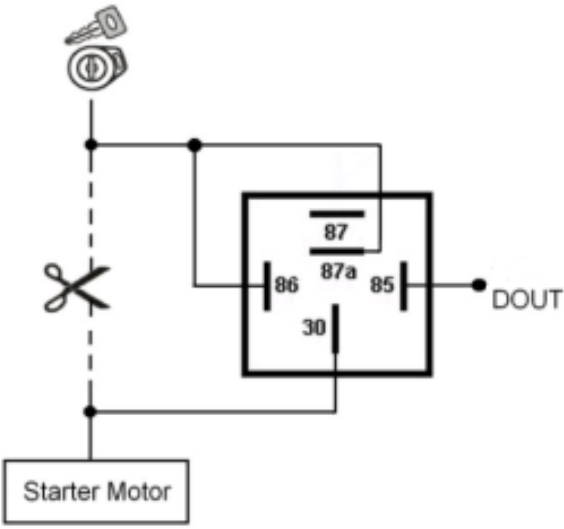


# FM36M1 Accessories

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✘ Please order accessories separately as they are not included into device package.

Accessory and its description	Accessory connection schematic
<p><b>Fuel tank sensors</b></p> <p>A fuel tank level sensor exists in most cars, which shows the approximate fuel level in the driver's indicator panel. It is possible to connect Analog input to FM36M1 (if sensor returns analogue signal proportional to fuel level). Figure 10 shows the connection scheme to the FM36M1 and fuel tank sensor through Analog input 1. After the connection to the tank fuel level sensor, calibration is needed. Calibration is needed because most fuel tank sensors are not linear. Calibration is performed by measuring voltage dependence on volume of fuel in tank.</p>	<p><b>Fuel sensor connection to FM36M1</b></p> <p>✘</p>
<p><b>Alarm buttons, door sensors etc.</b></p> <p>Alarm buttons, door sensors, ignition, etc. have two output states: high or low. FM36M1 Digital inputs are used to detect these states.</p>	<p><b>Panic button connection to FM36M1</b></p> <p>✘</p>
<p><b>Relays</b></p> <p>In cases when sensor output signal is negative, an additional relay has to be installed to convert negative signal to positive.</p>	<p><b>Inverting relay connection to FM36M1</b></p> <p>✘</p>
<p><b>Immobilizer relay</b></p> <p>When connected as shown on the right hand side, FM36M1 disables engine starter when output is ON.</p>	<p><b>Immobilizer relay connection to FM36M1 output</b></p> 
<p><b>Automotive relay</b></p>	<p><b>Automotive relay pinout</b></p>

An ordinary automotive relay is used to invert input signal or to immobilize engine starter. Note that relays can be 12 V or 24 V capable.



### **1-Wire devices**

One of the implemented features on FM36M1 is 1-Wire® data protocol, which enables connection to devices such as thermometer (DS1820, DS18S20 and DS18B20) and I-Button DS1990A.

### **Digital thermometer DS1820 and TTJ100 connection to FM36M1**



TTJ sensor pinout



### **I-Button DS1990A connection to FM36M1**

