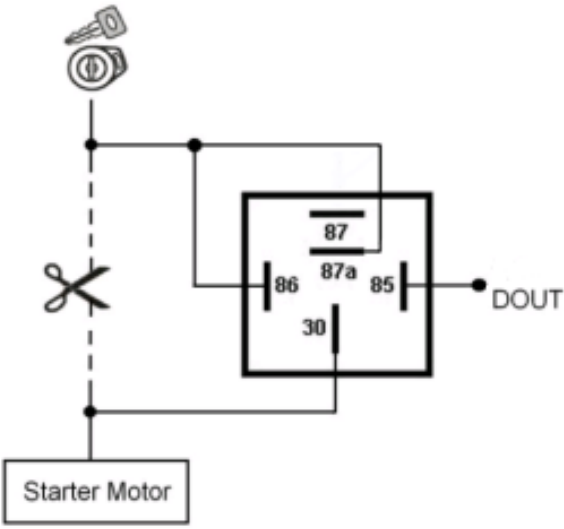


# FMA202 Accessories

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

Accessory and its description	Accessory connection schematic
<b>Fuel tank sensors</b> A fuel tank level sensor which indicates the approximate fuel level on the driver's indicator panel exists in most cars. If the sensor returns analogue signal proportional to fuel level it can be connected to FMA202 Analog input. After connection to the tank fuel level sensor a calibration is needed because most fuel tank sensors are not linear. Calibration is performed by measuring voltage values resulting from the volume of fuel in tank.	<b>Fuel sensor connection to FMA202</b> ✘
<b>Alarm buttons, door sensors etc.</b> Alarm buttons, door sensors, ignition, etc. have two output states: high or low. FMA202 Digital inputs are used to detect these states.	<b>Panic button connection to FMA202</b> ✘
<b>Relays</b> In cases when sensor output signal is negative, an additional relay has to be installed to convert negative signal to positive.	<b>Inverting relay connection to FMA202</b> ✘
<b>Immobilizer relay</b> When connected as shown on the right hand side, FMA202 disables engine starter when output is ON.	<b>Immobilizer relay connection to FMA202 output</b> 
<b>Automotive relay</b> 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.	<b>Automotive relay pinout</b> ✘
<b>1-Wire devices</b>	<b>Digital thermometer DS1820 and TTJ100 connection to FMA202</b>

One of the implemented features on FMA202 is 1-Wire® data protocol, which enables connection to devices such as thermometer (DS1820, DS18S20 and DS18B20) and I-Button types: DS1990, DS1991, DS1994, DS1993, DS1992, DS1982, DS1995, DS1985, DS1996, DS1986, DS1971, DS1963L, DS1921, DS1973, DS1904, DS1972, DS1977, DS2413, DS1922/1923, DS1990A, DS1982U, DS1985U, DS1986U.



TTJ sensor pinout



**I-Button DS1990A connection to FMA202**

