FM6320 Accessories

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

Fuel tank sensors

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 FM6320 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.

Fuel sensor connection to FM6320

Alarm buttons, door sensors etc.

Alarm buttons, door sensors, ignition, etc. have two output states: high or low. FM6320 Digital inputs are used to detect these states.

Panic button connection to FM6320

Relays

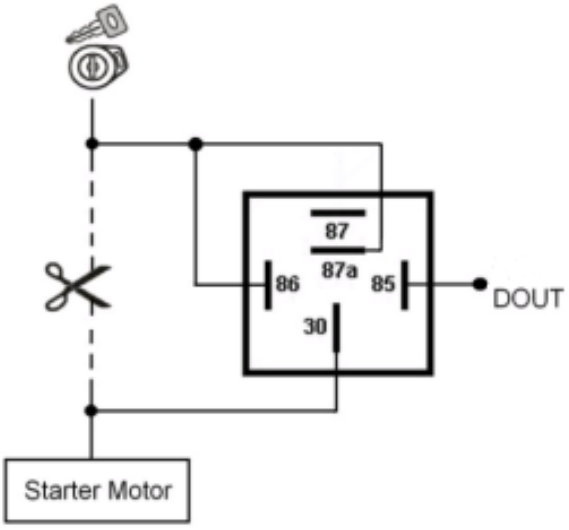
In cases when sensor output signal is negative, an additional relay has to be installed to convert negative signal to positive.

Inverting relay connection to FM6320

Immobilizer relay

When connected as shown on the right hand side, FM6320 disables engine starter when output is ON.

Immobilizer relay connection to FM6320 output



Automotive relay

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.

Automotive relay pinout

1-Wire devices

Digital thermometer DS1820 and TTJ100 connection to FM6320

One of the implemented features on FM6320 is 1-Wire® data protocol, which enables connection to devices such as thermometer (DS1820, DS18S20 and DS18B20) and I-Button DS1990A.

Impulse counters

Here two pulse meters are used, where one is mounted on the direct flow valve and the other on the return flow valve. Data from both meters is sent to the FM6320. Then FM6320 calculates DIN3-DIN4. Resulting difference equals to fuel consumption. Filter should be used on the direct flow pipe to prevent any damage caused by impurities in the liquid. The filter mounted in the meter inlet is only a safety filter and it is too small to act as a strainer. Read more about impulse counters here

TTJ sensor pinout

I-Button DS1990A connection to FM6320

Pulse fuel meters connection scheme