

## I/O connections: Temperature (J3)

The ME401 can be connected to 1 or 2 temperature sensors.

Temp. sensor	Function	Conn. Box J3
Red	Signal 1	7 (1-WIRE)
Black	Gnd	11 (Gnd)

Red	Signal 2	8 (1-WIRE)
Black	Gnd	12 (Gnd)

## I/O connections: ID06 reader (J3)

ID06 reader	Function	Conn. Box J3
Red	12-24VDC	2 (12V/24V)
Black	Gnd	12 (Gnd)
Pink	Signal	5 (RX)
Blue	Green LED	9 (OUT1)

## I/O connections: Dallas key reader (J3)

Dallas key reader	Function	Conn. Box J3
White	Signal	7 (1-WIRE)
Grey	Gnd	13 (Gnd)
Brown	12-24VDC	1 (12/24V)
Yellow	Red LED	10 (RLED)
Green	not used	not used

## Relay (J3)

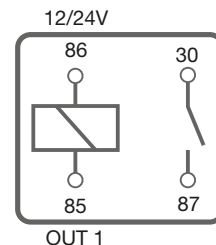
In systems where ME401 will serve as immobilizer or similar control function will OUT1 be active low.

Power drain on OUT1 is limited to 200 mA.

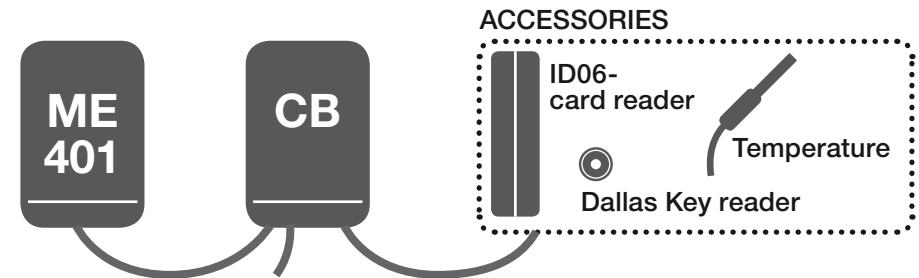
In cases with higher current draw, please use a 12/24V DC relay. Refer to illustration.

Relay	Function	Signal
86	Relay Coil +	12/24V
85	Relay Coil -	OUT1
87	Starter Control Signal	
30	Signal to starter	

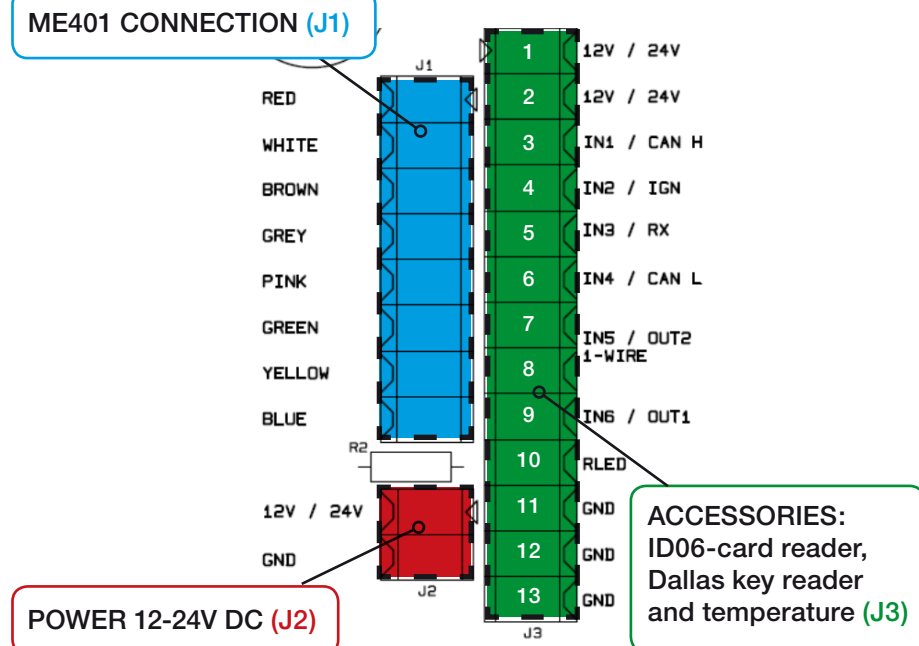
Relay connectivity



The Connection Box (CB) connects the different accessories and power supply to the ME401 GPS/GSM unit.



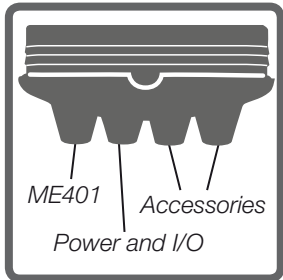
## Connection Box print layout



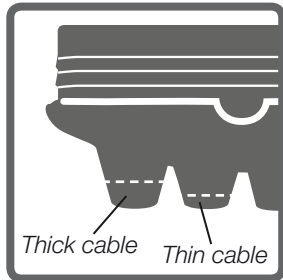
# Mechanical installation

## Prepare end piece

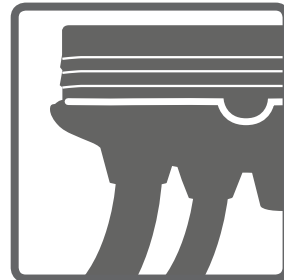
The end piece has 4 conical rubber grommets for cable mounting. Small cuttings creates small hole, large cuttings creates bigger hole for cable entry. Minimize the hole size for improved dust and water resistance.



Connections



Cut the hole



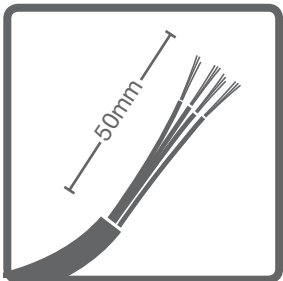
Pull cable through

## Installation of cables

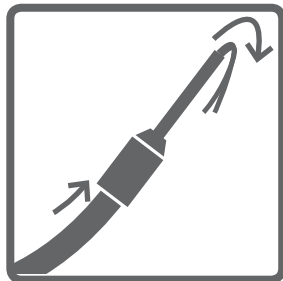
Strip 12 mm of wire. Attach the wire in the ferrules included. Excess bare wire sticking out of the ferrule should be bend back before the ferrule is mounted in the terminal blocks. Tighten screws firmly, to ensure proper connection with terminal blocks. Cut off unused wires to prevent short circuit.



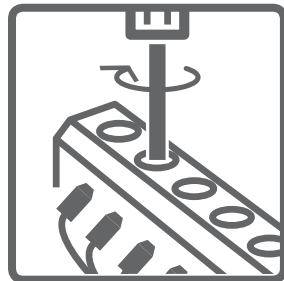
Ferrule



Strip 50 mm wire



Attach and bend back

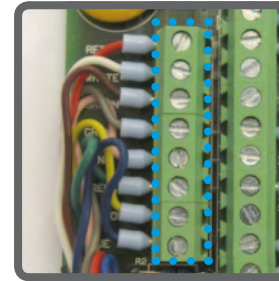


Tighten screw firmly

# Electrical installation

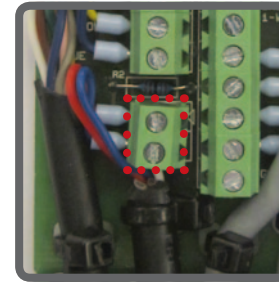
## ME401 connection (J1)

Premounted 8 pin cable from ME401 is installed in all slots.



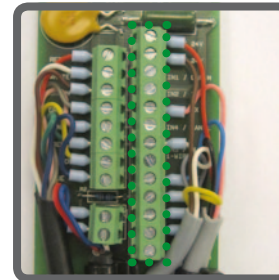
## Power connection 12-24V DC (J2)

An external fuse must be mounted between the battery power supply and the Connection Box. Premounted cable red and blue colors for power supply connections/engine battery. The fuse must be mounted as close as possible to the power supply. Fuse-kit is enclosed.



## I/O connections: General I/O (J3)

To ensure proper data collection in ME401, it is important that the general I/O signals are mounted.



I/O cable	Function	
White	<b>Input 1</b>	(Engine hours)
Brown	<b>Input 2</b>	Ignition
Grey	<b>Input 3</b>	(ID06)
Pink	<b>Input 4</b>	
Yellow	<b>Output 1</b>	(Immobilizer relay)