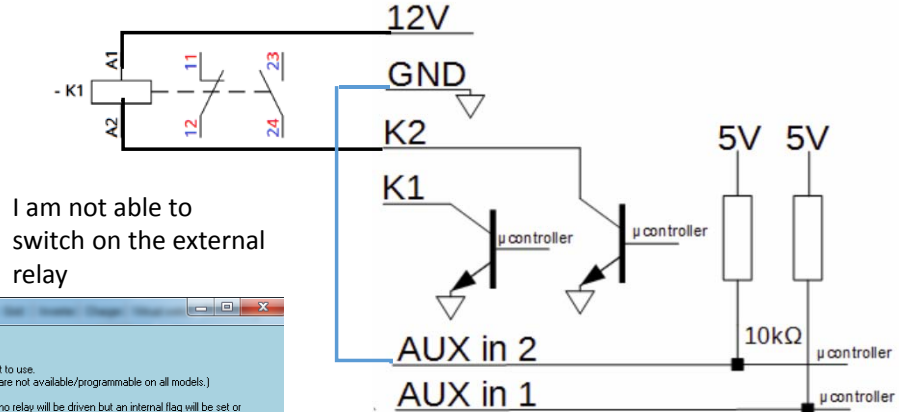# What is the correct wiring of AUX in so that Multiplus II will sence it ?
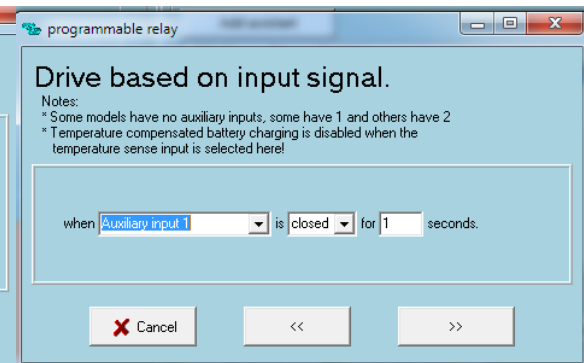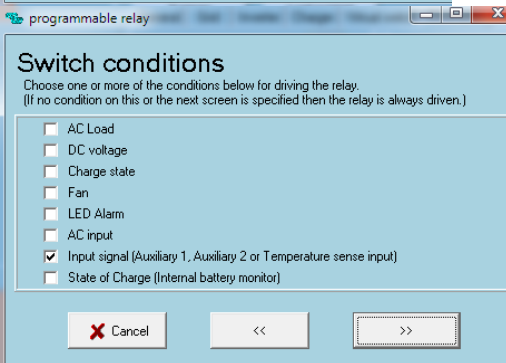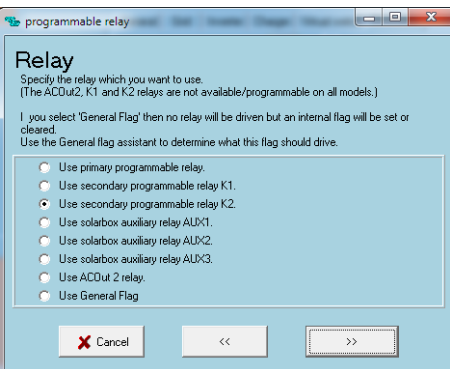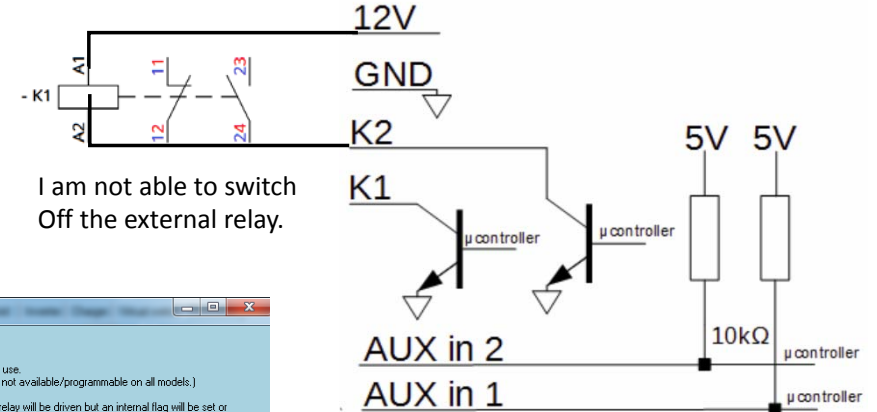
I want the relay K2 to switch ON based on „Auxiliary input 1" „closed", but it does not switch ON When I connect GND and AUX1
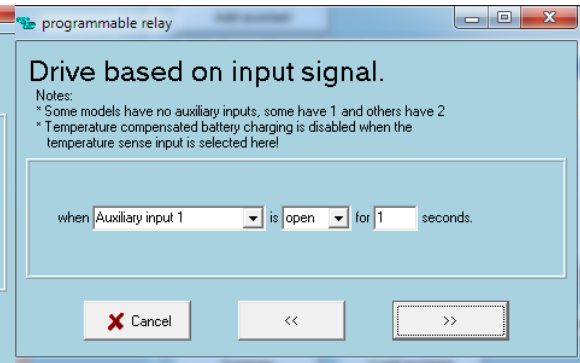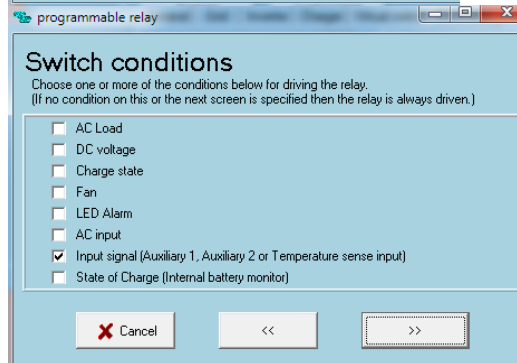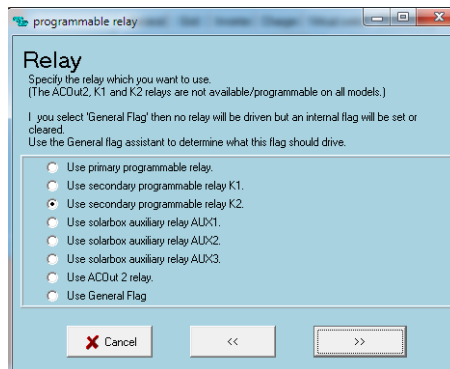
Relay K2 is ON when switch condition is „Auxiliary input 1" „ open" . If I connect GND and AUX 1 nothing happens
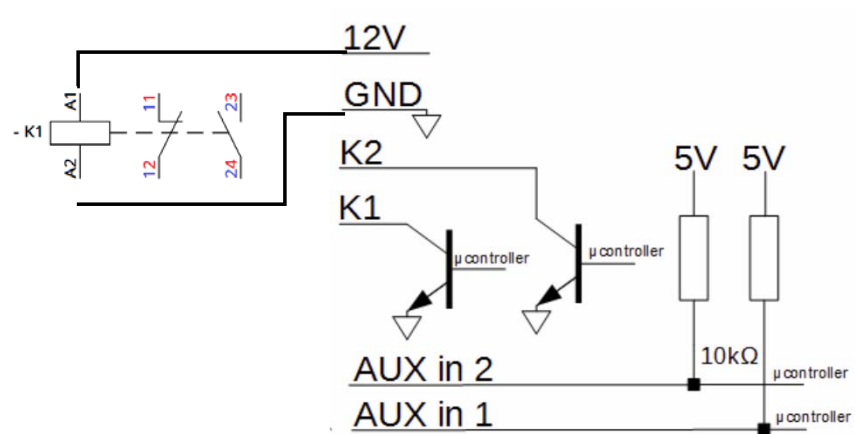
I am not able to switch on the external relay

12V
GND
K2
K1
5V 5V
AUX in 2
AUX in 1
10kΩ
µcontroller
µcontroller
µcontroller
µcontroller
- K1

I am not able to switch Off the external relay.

12V
GND
K2
K1
5V 5V
AUX in 2
AUX in 1
10kΩ
µcontroller
µcontroller
µcontroller
µcontroller
- K1

Relay
Specify the relay which you want to use.
(The ACOut2, K1 and K2 relays are not available/programmable on all models.)
I you select 'General Flag' then no relay will be driven but an internal flag will be set or cleared.
Use the General flag assistant to determine what this flag should drive.

- Use primary programmable relay.
- Use secondary programmable relay K1.
- ⦿ Use secondary programmable relay K2.
- Use solarbox auxiliary relay AUX1.
- Use solarbox auxiliary relay AUX2.
- Use solarbox auxiliary relay AUX3.
- Use ACOut 2 relay.
- Use General Flag

✕ Cancel   <<   >>

Switch conditions
Choose one or more of the conditions below for driving the relay.
(If no condition on this or the next screen is specified then the relay is always driven.)

- ☐ AC Load
- ☐ DC voltage
- ☐ Charge state
- ☐ Fan
- ☐ LED Alarm
- ☐ AC input
- ☑ Input signal (Auxiliary 1, Auxiliary 2 or Temperature sense input)
- ☐ State of Charge (Internal battery monitor)

✕ Cancel   <<   >>

Drive based on input signal.
Notes:
* Some models have no auxiliary inputs, some have 1 and others have 2
* Temperature compensated battery charging is disabled when the temperature sense input is selected here!

when Auxiliary input 1 ▼ is closed ▼ for 1 seconds.

✕ Cancel   <<   >>

Relay
Specify the relay which you want to use.
(The ACOut2, K1 and K2 relays are not available/programmable on all models.)
I you select 'General Flag' then no relay will be driven but an internal flag will be set or cleared.
Use the General flag assistant to determine what this flag should drive.

- Use primary programmable relay.
- Use secondary programmable relay K1.
- ⦿ Use secondary programmable relay K2.
- Use solarbox auxiliary relay AUX1.
- Use solarbox auxiliary relay AUX2.
- Use solarbox auxiliary relay AUX3.
- Use ACOut 2 relay.
- Use General Flag

✕ Cancel   <<   >>

Switch conditions
Choose one or more of the conditions below for driving the relay.
(If no condition on this or the next screen is specified then the relay is always driven.)

- ☐ AC Load
- ☐ DC voltage
- ☐ Charge state
- ☐ Fan
- ☐ LED Alarm
- ☐ AC input
- ☑ Input signal (Auxiliary 1, Auxiliary 2 or Temperature sense input)
- ☐ State of Charge (Internal battery monitor)

✕ Cancel   <<   >>

Drive based on input signal.
Notes:
* Some models have no auxiliary inputs, some have 1 and others have 2
* Temperature compensated battery charging is disabled when the temperature sense input is selected here!

when Auxiliary input 1 ▼ is open ▼ for 1 seconds.

✕ Cancel   <<   >>

Why is the connection below not working?

I would expect the external relay to be constantly switched ON, but it doesn't switch ON.

I can not use the connection below because there is a limit 100 mA for 12V pin. Is that correct ?

I just want to make sure that I cant use this connection and will have to find other way to do what I want.

Altogether 110 mA would be drawn from 12 V pin

12V

55 mA goes trough K2

GND

K2

K1

5V 5V

55 mA goes trough K1

µ controller

µ controller

10kΩ
µ controller

AUX in 2

AUX in 1

µ controller