

11. EXTERNAL INPUT & OUTPUT

| Connector | INPUT | OUTPUT | REMARKS |
|-----------|---------------|--------------------------|---|
| CN102 | Control input | — | See external input/output settings for details. |
| CN103 | — | Operation status output | |
| CN6 | — | Fresh air control output | |
| CN10 | — | Auxiliary heater output | |

11-1. EXTERNAL INPUT

■ CONTROL INPUT (Operation/Stop or Forced stop)

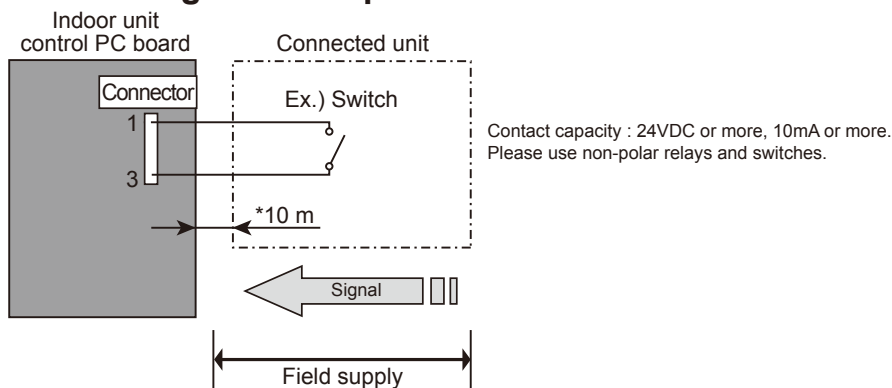
The air conditioner can be remotely operated by means of the following on-site work.

"Operation/Stop" mode or "Forced stop" mode can be selected with function setting of indoor unit.

Unit operation is started at the following contents by adding the contact input of a commercial ON/OFF switch to a connector on the external control PC board and turning it ON.

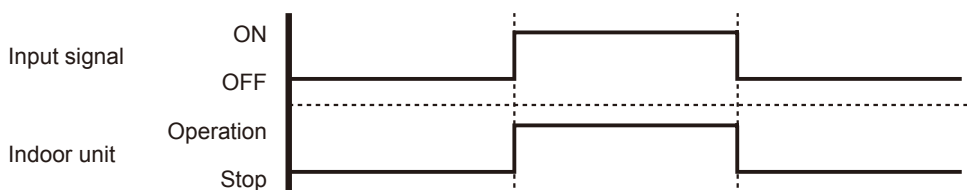
| Unit operation | Initial setting after power is ON | Starting mode other than initial setting |
|----------------------------------|------------------------------------|--|
| Operation mode | Auto changeover | Mode at previous operation |
| Set temperature | 24°C | Temperature at previous operation |
| Air flow mode | AUTO | Mode at previous operation |
| Up-down air direction (swing) | Standard air direction (swing OFF) | Air direction at previous operation |
| Left-right air direction (swing) | Standard air direction (swing OFF) | Air direction at previous operation |

● Circuit diagram example

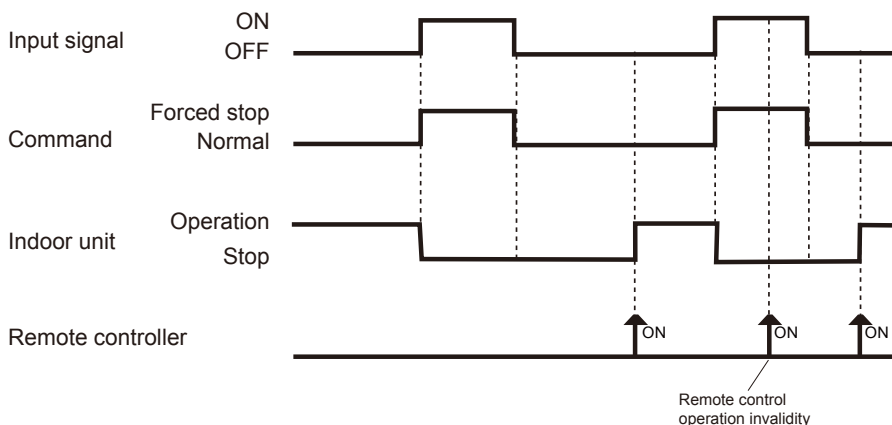


* Make the distance from the PC board to the connected unit within 10m.

● When function setting is in "Operation/Stop" mode



● When function setting is in "Forced stop" mode



● Parts (Optional)

| Model name |
|------------|
| UTD-ECS5A |

Wire (External input)

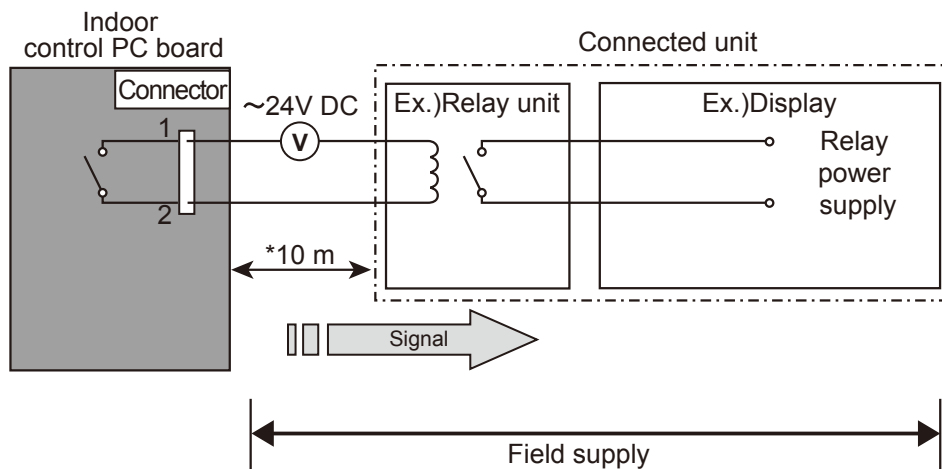


11-2. EXTERNAL OUTPUT

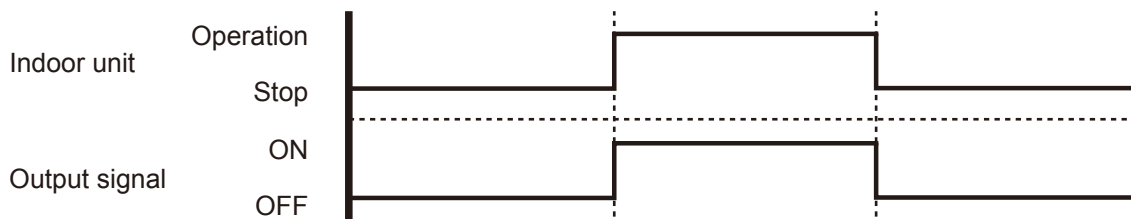
■ OPERATION STATUS OUTPUT

An air conditioner operation status signal can be output.

● Circuit diagram example



* Make the distance from the PC board to the connected unit within 10m.
Relay spec. : Max.24VDC, 10mA to less than 500mA.



● Parts (Optional)

| Model name |
|------------|
| UTD-ECS5A |

Wire (External output)

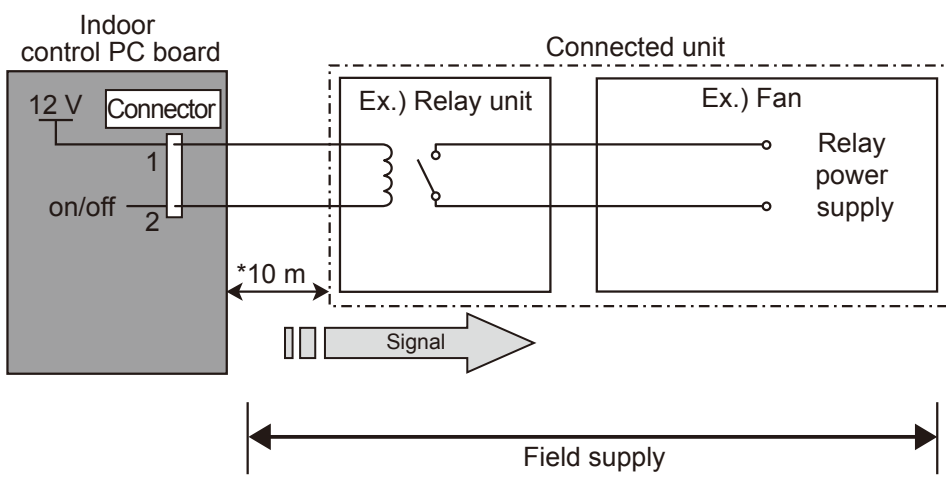


■ FRESH AIR CONTROL OUTPUT

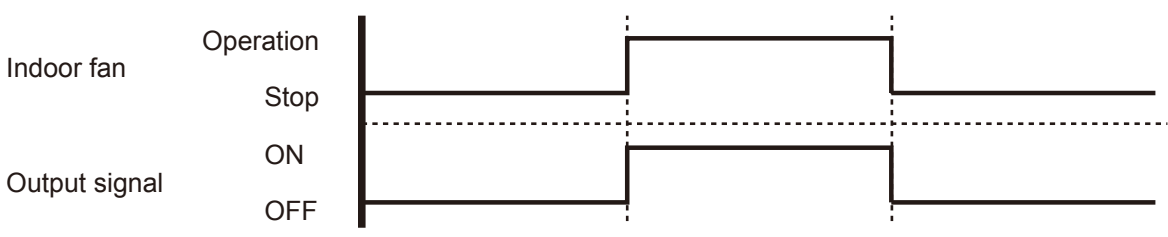
A signal linked to air conditioner indoor fan ON can be output.

* However, signal becomes OFF during cold air prevention control operation.

● Circuit diagram example



* Make the distance from the PC board to the connected unit within 10m.
Relay spec. : Rated 12VDC, 50mA or less.



● Parts (Optional)

| Model name |
|------------|
| UTD-ECS5A |

Wire (Fresh air output)



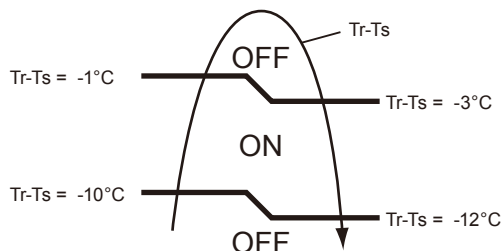
AUXILIARY HEATER OUTPUT

A signal is outputted from Connector when indoor fan and compressor turned on under heating operation.

*Signal output performance specifications are as shown on the right

Ex. When Set Temperature(T_s) is 22°C;

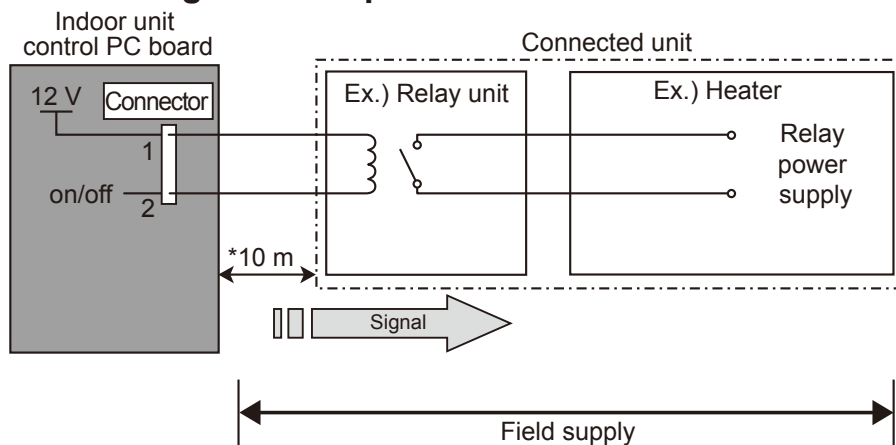
- and Room Temperature(T_r) increase above 12°C, signal output is on.
- and Room Temperature(T_r) increase above 21°C, signal output is off.
- and Room Temperature(T_r) decrease below 19°C, signal output is on.
- and Room Temperature(T_r) decrease below 10°C, signal output is off.



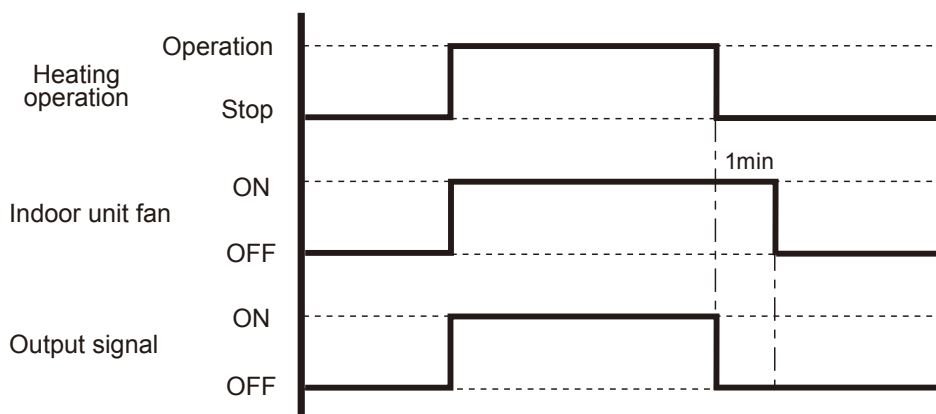
Jumper wire (Indoor Unit)

This is used to continue indoor unit fan operation for 1 minute after thermo OFF in heating mode. 1 minute delay control set by cutting jumper wire on PCB.

Circuit diagram example



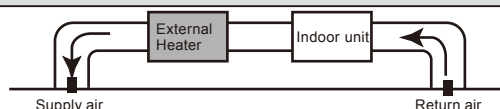
* Make the distance from the PC board to the connected unit within 10m.
Relay spec. : Rated 12VDC, 50mA or less.



CAUTION

Please locate an external heater between the indoor unit and the outlet.

Please be sure to use delay control of a fan.



Parts (Optional)

| Model name |
|------------|
| UTD-ECS5A |

Wire (Heater output)

