

8. External input and output

Connector	Input	Output	Remarks
CN102	Control inpt (Operation/Stop)	—	See external input/output settings for details.
CN103	—	Operation status output	
CN6	—	Fresh air control output	
CN10	—	Auxiliary heater output	

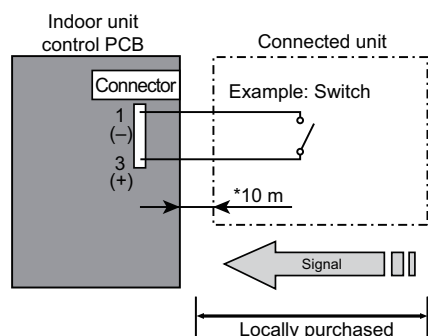
8-1. External input

■ 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 PCB and turning it on.

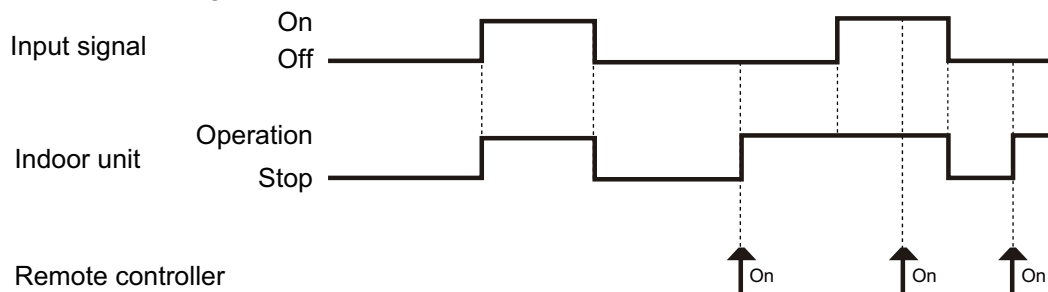
Unit operation	Initial setting after power is on	Starting mode other than initial setting
Operation mode	Auto changeover	Mode at previous operation
Set temperature	24 °C	Temperature at previous operation
Airflow mode	AUTO	Mode at previous operation
Air direction (swing)	Standard air direction (swing OFF)	Air direction at previous operation

● Circuit diagram example

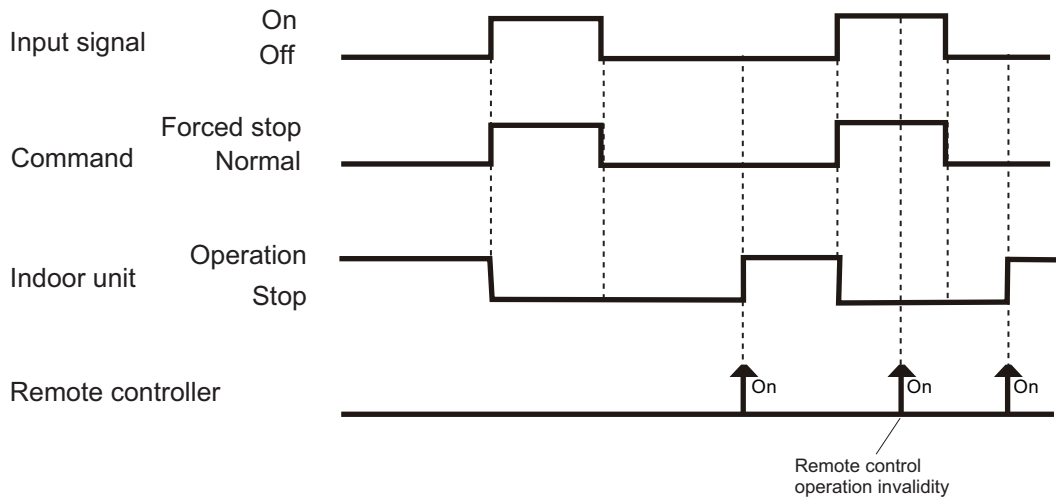


- Contact capacity: DC 24 V or more, 10 mA or more.
- *: Make the distance from the PCB to the connected unit within 10 m.
- Use non-polar relays and switches.


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



- When function setting is in "Forced stop" mode



● Optional part

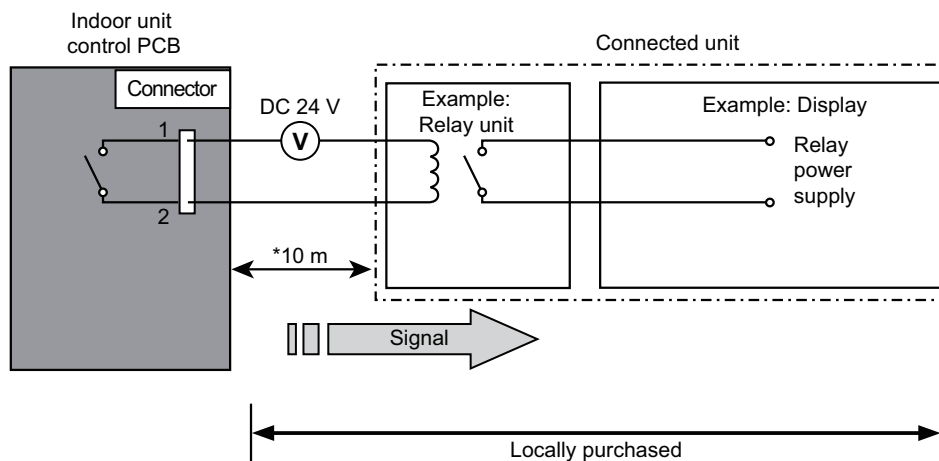
Model name	Exterior
UTD-ECS5A	External input wire 

8-2. External output

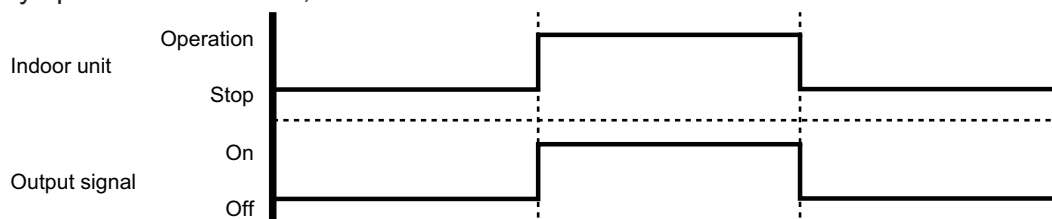
With using external output function, operating status of this product can be transmitted to the external device, and also, this product can be inter-connected with the external device.

■ Operation status output


● Circuit diagram example



- *: Make the distance from the PCB to the connected unit within 10 m.
- Relay spec: Max. DC 24 V, 10 mA to less than 500 mA.



● Optional part

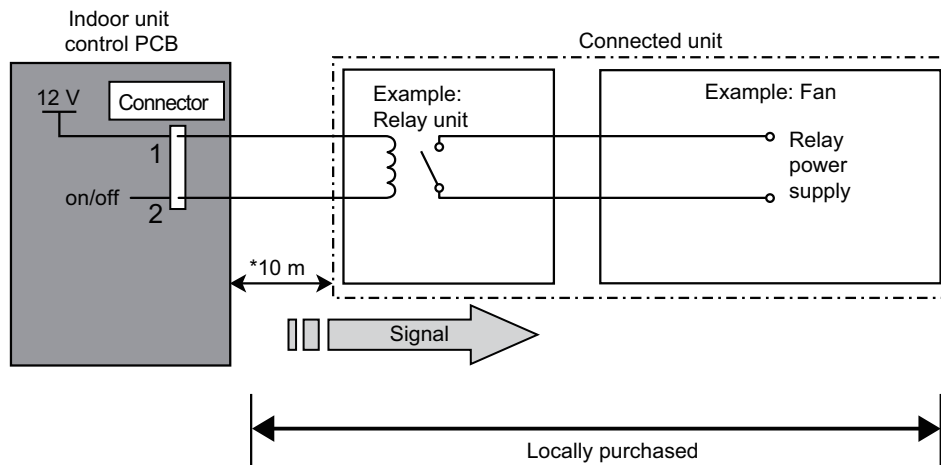
Model name	Exterior
UTD-ECS5A	External output wire 

■ Fresh-air control output

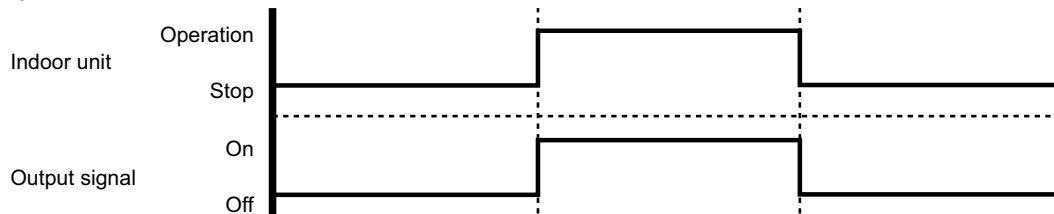
Signal linked to the indoor unit fan on can be output.

NOTE: In cold-air prevention control operation, the signal becomes off.


● Circuit diagram example



- *: Make the distance from the PCB to the connected unit within 10 m.
- Relay spec: Rated DC 12 V, 50 mA or less.



● Optional part

Model name	Exterior
UTD-ECS5A	Fresh-air output wire 

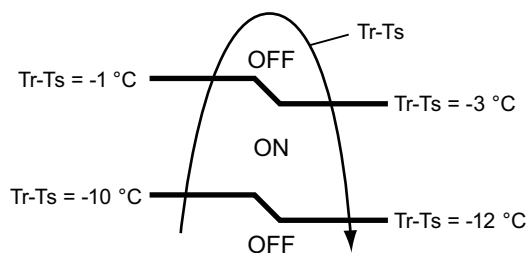
■ Auxiliary heater output

When indoor unit fan and compressor is turned on in heating operation, the signal is output from connector.

Specifications of the signal output performance are as shown as follows:

Example: When set temperature (T_s) is set at 22 °C;

- And room temperature (T_r) increase above 12 °C, signal output is ON.
- And T_r increase above 21 °C, signal output is OFF.
- And T_r decrease below 19 °C, signal output is ON.
- And T_r decrease below 10 °C, signal output is OFF.

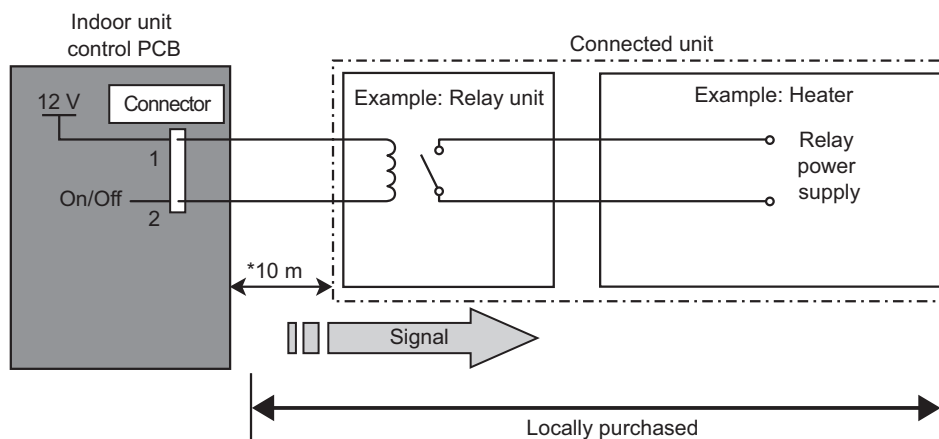


● Fan delay setting

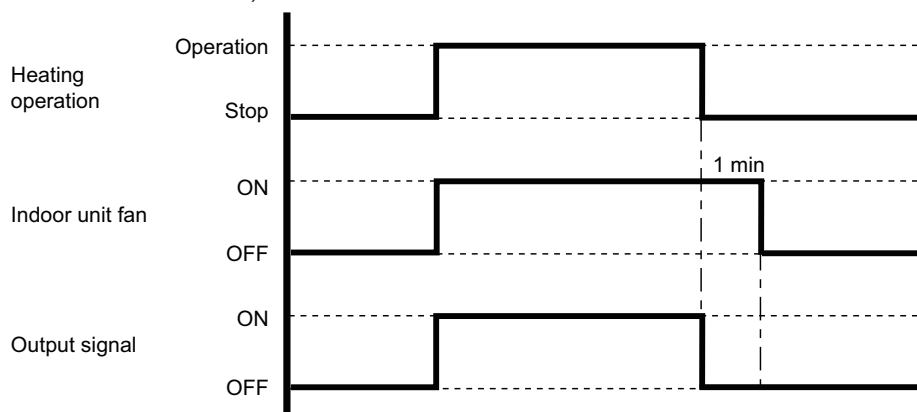
This is used to continue the indoor unit fan operation for 1 minute after thermo OFF in heating mode.

For the detail setting on fan delay setting, refer to “Function settings on indoor unit” in ["Function settings"](#) on page 24.

● Circuit diagram example

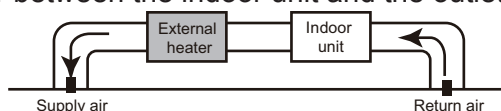


- *: Make the distance from the PCB to the connected unit within 10 m.
- Relay spec: Rated DC 12 V, 50 mA or less.



⚠ CAUTION

- Place an external heater between the indoor unit and the outlet.



- Be sure to use delay control of the fan.

● **Optional part**

Model name	Exterior
UTD-ECS5A	<p data-bbox="1050 197 1273 226">Heater output wire</p> 