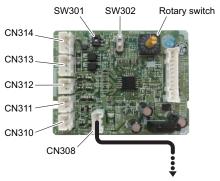
11-2. Wall mounted type (KGTB, 18-24KMTB, KETA, and KETA-B)

External input and output PCB



To CN6 on Indoor unit PCB

PCB	External input	External output	Connector	Input select	Input signal
	Operation/Stop		CN313/	Dry contact/	Edge/Pulse
	Forced stop	-	CN314	Dry contact/ Apply voltage	Luge/Fuise
External input	Forced thermostat off		CN313	Apply voltage	Edge
and output (UTY-		Operation status	CN310		
XCSXZ2)	_	Error status	CN311		
	-	Indoor unit fan operation status	CN312	-	

NOTE: KETA, KETA-B: External input and output PCB cannot be used with Wireless LAN adapter simultaneously.

■ External input

With using external input function, some functions on this product can be controlled from an external device.

- · "Operation/Stop" mode or "Forced stop" mode can be selected with function setting of indoor unit.
- A twisted pair cable should be used. Maximum length of cable is 150 m.
- The wire connection should be separate from the power cable line.

External input and output PCB

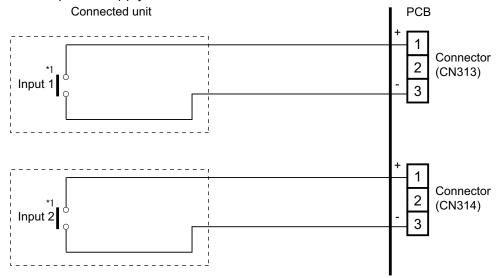
The indoor unit Operation/Stop can be set by using the input connector on the PCB.

Input select:

Use either one of these types of connectors according to the application. (Both types of connectors cannot be used simultaneously.)

- Dry contact

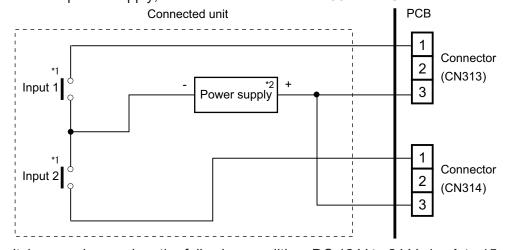
In case of internal power supply, set the slide switch of SW301 to "NON VOL" side.



*1: The switches can be used on the following condition: DC 12 V to 24 V, 1 mA to 15 mA.

Apply voltage

In case of external power supply, set the slide switch of SW301 to "VOL" side.



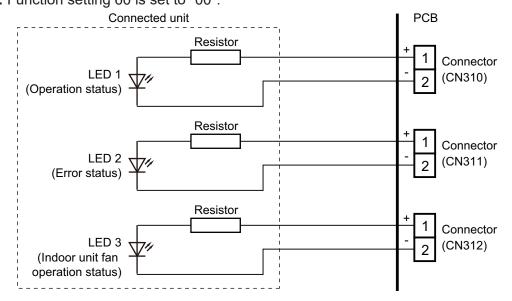
- *1: The switches can be used on the following condition: DC 12 V to 24 V, 1 mA to 15 mA.
- *2: Make the power supply DC 12 to 24 V, 10 mA or more.

■ External output

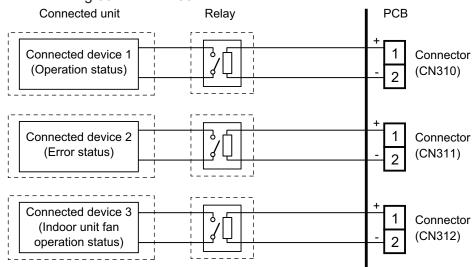
Use an external output cable with appropriate external dimension, depending on the number of cables to be installed.

External input and output PCB

- A twisted pair cable (22AWG) should be used. Maximum length of cable is 25 m.
- Output voltage: High DC 12 V±2 V, Low 0 V.
- · Permissible current: 50 mA
- For details, refer to "Combination of external input and output" on page 159.
- When indicator or other components are connected directly: Example: Function setting 60 is set to "00".



• When connecting with a device equipped with a power supply: Example: Function setting 60 is set to "00".



■ Combination of external input and output

By combining the function setting of the indoor unit and rotary switch setting of the External input and output PCB, you can select various combinations of functions.

Combination examples of external input and output are as follows:

		External input	out External input				
Mode	Function setting	and output PCB	External input and output PCB				
		(Rotary SW)	CN313	CN314	Signal type		
0-1	60-00	1	Operation/Stop	Not available	Edge		
0-1	00-00	l I	Operation	Stop	Pulse		
0-2	60-00	2	Forced Thermostat OFF Not available		Edge		
1—8	60-01 to 60-08	3 - 9, A		(Setting prohibited)			
9	60-09	В	Forced Thermostat OFF	Not available	Edge		
10	60-10	С	Forced Thermostat OFF Not available		Edge		
11	60-11	D	Forced Thermostat OFF	Not available	Edge		

		External input	External output					
Mode	Function setting	and output PCB	Exte	External input and output PC				
		(Rotary SW)	CN310	CN311	CN312			
0-1	60-00	1	Operation/Stop	Error status	Indoor unit fan operation status			
0-2	60-00	2	Error status Indoor unit fan operation status		Not available			
1—8	60-01 to 60-08	3 - 9, A		(Setting prohibited)				
9	60-09	В	Operation/Stop	Indoor unit fan operation status	Not available			
10	60-10	С	Operation/Stop	Error status	Not available			
11	60-11	D	Operation/Stop	Indoor unit fan operation status	Error status			

NOTE: Input of Operation/Stop depends on the setting of function setting 46.

00: Operation/Stop mode 1 (R.C. enabled)

01: (Setting prohibited)

02: Forced stop

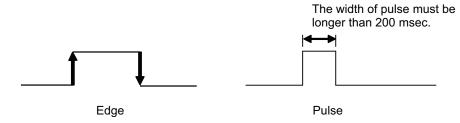
03: Operation/Stop mode 2 (R.C. disabled)

Input signal type

External input and output PCB:

The input signal type can be selected.

Signal type (edge or pulse) can be switched by the DIP switch SW302 on the External input and output PCB.

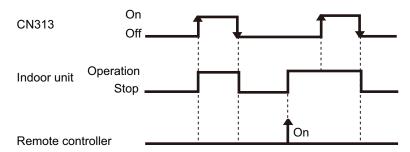


■ Details of function

Control input function

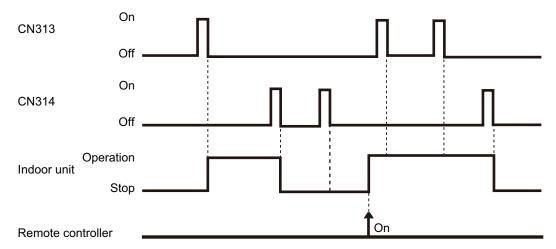
- · When function setting is "Operation/Stop" mode 1
 - In the case of "Edge" input:

	ction Rotary SW on External input a ing / output PCB	d External inpu	External input		Command
46-00	60-00 / 1	External input and	CN313	$Off \rightarrow On$	Operation
40-00	00-0071	output PCB	CINOTO	$On \rightarrow Off$	Stop



- In the case of "Pulse" input:

Fund sett	External input and	ernal input and External input output PCB External input and CN313		Input signal	Command
46-00	60-00 / 1	External input and	CN313	Pulse	Operation
40-00	00-00 / 1	output PCB	CN314	Pulse	Stop



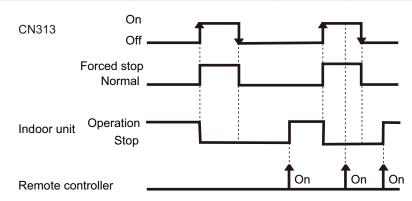
NOTES:

- The last command has priority.
- The indoor units within the same remote controller group operates in the same mode.

· When function setting is "Forced stop" mode

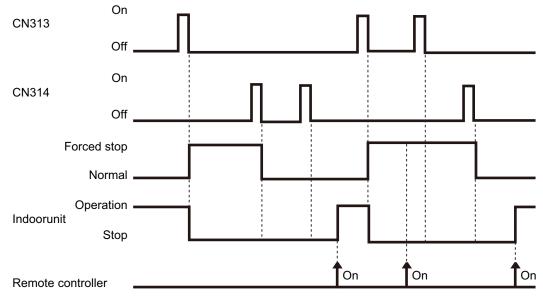
- In the case of "Edge" input:

output PCB		External input and	·		Input signal	Command
46-02		60-00 / 1	External input and	CN313	$Off \rightarrow On$	Forced stop
40-02		00-00 / 1	output PCB		$On \rightarrow Off$	Normal



- In the case of "Pulse" input:

Fund sett	Rotary SW on External input and output PCB	l External inpu	ıt	Input signal	Command
46-02	60-00 / 1	External input and	CN313	Pulse	Forced stop
40-02	00-0071	output PCB	CN314	Pulse	Normal



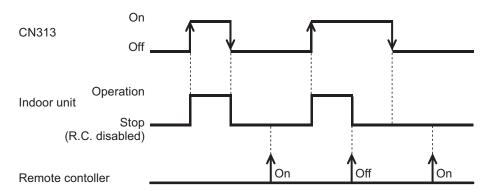
NOTES:

- When the forced stop is triggered, indoor unit stops and Operation/Stop operation by the remote controller is restricted.
- When forced stop function is used with forming a remote controller group, connect the same equipment to each indoor unit within the group.

• When function setting is "Operation/Stop" mode 2

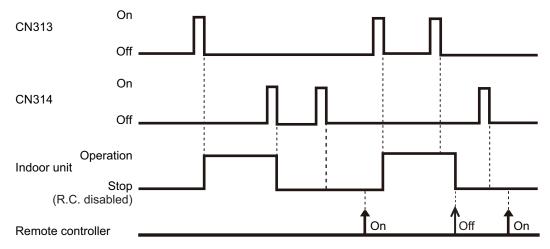
- In the case of "Edge" input:

_	ction ing /	Rotary SW on External input and output PCB	External input		Input signal	Command
			External input and	External input and		Operation
46-03	60-00 / 1	/ 1 External input and output PCB CN313		CN313	On → Off	Stop (R.C.
			output FOB			disabled)



- In the case of "Pulse" input:

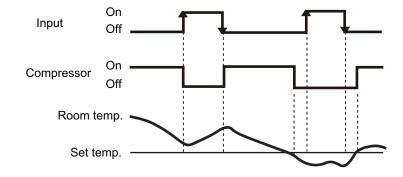
Fund sett	Rotary SW on External input and output PCB	External inpu	External input		Command
		External input and	CN313	Pulse	Operation
46-03	60-00 / 1	output PCB	CN314	Pulse	Stop (R.C. disabled)



NOTE: When "Operation/Stop" mode 2 function is used with forming a remote controller group, connect the same equipment to each indoor unit within the group.

Forced thermostat off function

	Function Setting / Rotary SW External inpu	t and	and External input		Input signal	Command
	60-00 / 2 60-09 / B 60-10 / C		External input and output	CN313	$Off \to On$	Thermostat off
			PCB	CNSTS	$On \rightarrow Off$	Normal operation

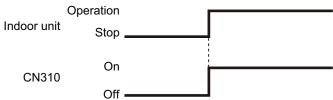


Control output function

Operation/Stop status

Function setting /	Rotary SW on External input and output PCB	External outpu	ıt	Output signal	Command
	60-00 / 1	External input and output	CN310	$Off \rightarrow On$	Operation
	00-0071	PCB	C14310	$On \rightarrow Off$	Stop

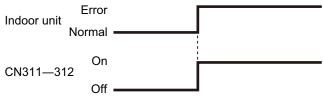
The output is low when the unit is stopped.



Error status

Function setting /	Rotary SW on External input and output PCB	External outpu	t	Output signal	Command
60-00 / 1		External input and output	CN311	$Off \to On$	Error
	00-0071	PCB	CNSTT	$On \rightarrow Off$	Normal

The output is ON when an error is generated for the indoor unit.



· Indoor unit fan operation status

Function Rotary SW on External setting / input and output PCB	External output		Output signal	Command
60-00 / 1	External input and output	CN312	$Off \rightarrow On$	Fan run
00-0071	PCB		$On \rightarrow Off$	Fan stop

Output signal	Condition	
On Low → High	The indoor unit fan is operating.	
1	The fan is stopped or during cold air prevention. During thermostat off when in dry mode operation.	

