

3-12. Signal amplifier (UTY-VSGXZ1)


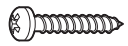




If the total length of transmission cable exceeds 500 m, or the number of the elements exceeds 64 units, Signal amplifier will be required.



- Transmission cable length can be extended up to 3,600 m with multiple Signal amplifier.
- Up to 8 Signal amplifier (Filter mode is off) can be installed in one VRF network system.
- Up to 40 Signal amplifier (Filter mode is on) can be installed in one VRF network system. (For Heat recovery system)

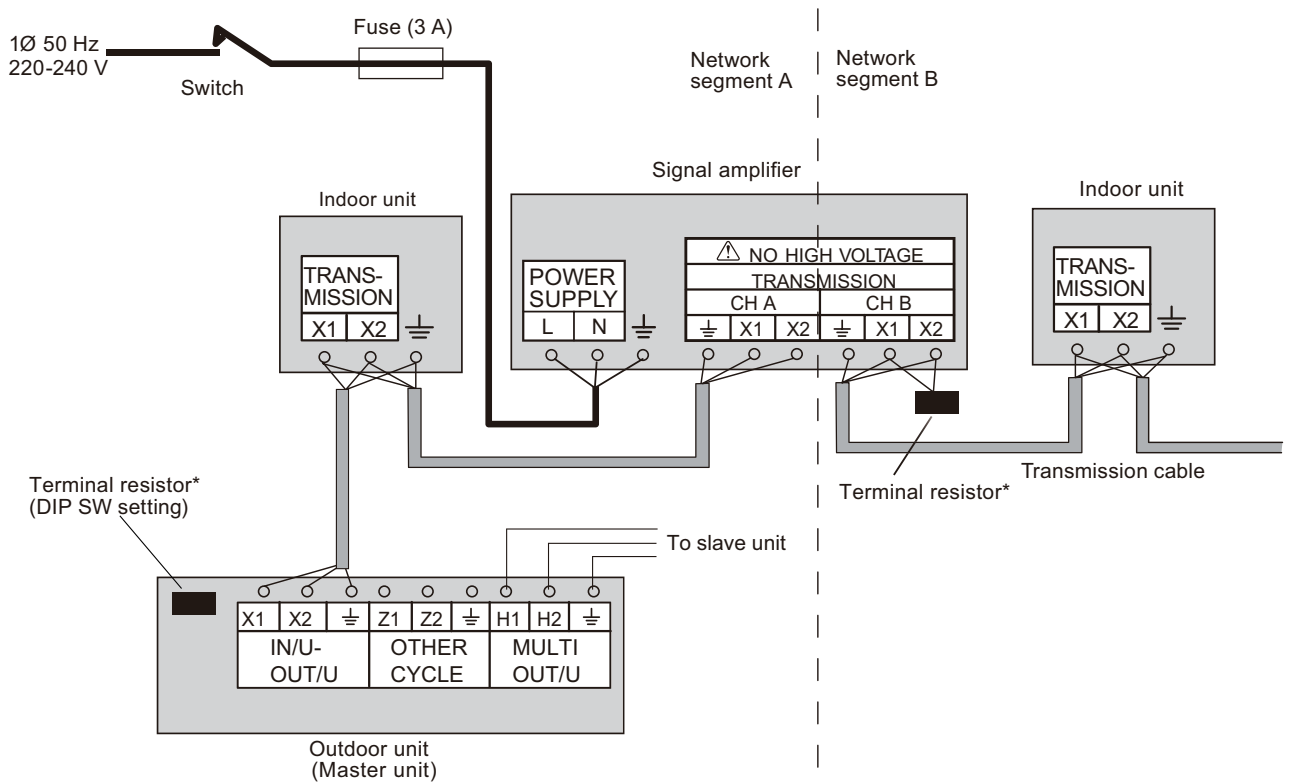
To prevent the drop of signal level by taking distance of length or quantity of unit in VRF network with installing Signal amplifier, signal level can be recovered.

■ Accessory

| Name and shape | Q'ty | Application |
|------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------|
|  Cable tie | 3 | For mounting the power supply cable and transmission cable |
|  Screw (M4 × 20 mm) | 4 | For mounting the Network converter |
|  Terminal register | 1 | |
|  Dust proof bushing | 1 | For connecting the power supply cable |
|  Connecting wire | 1 | For setting the filter mode |
|  Installation manual | 1 | |

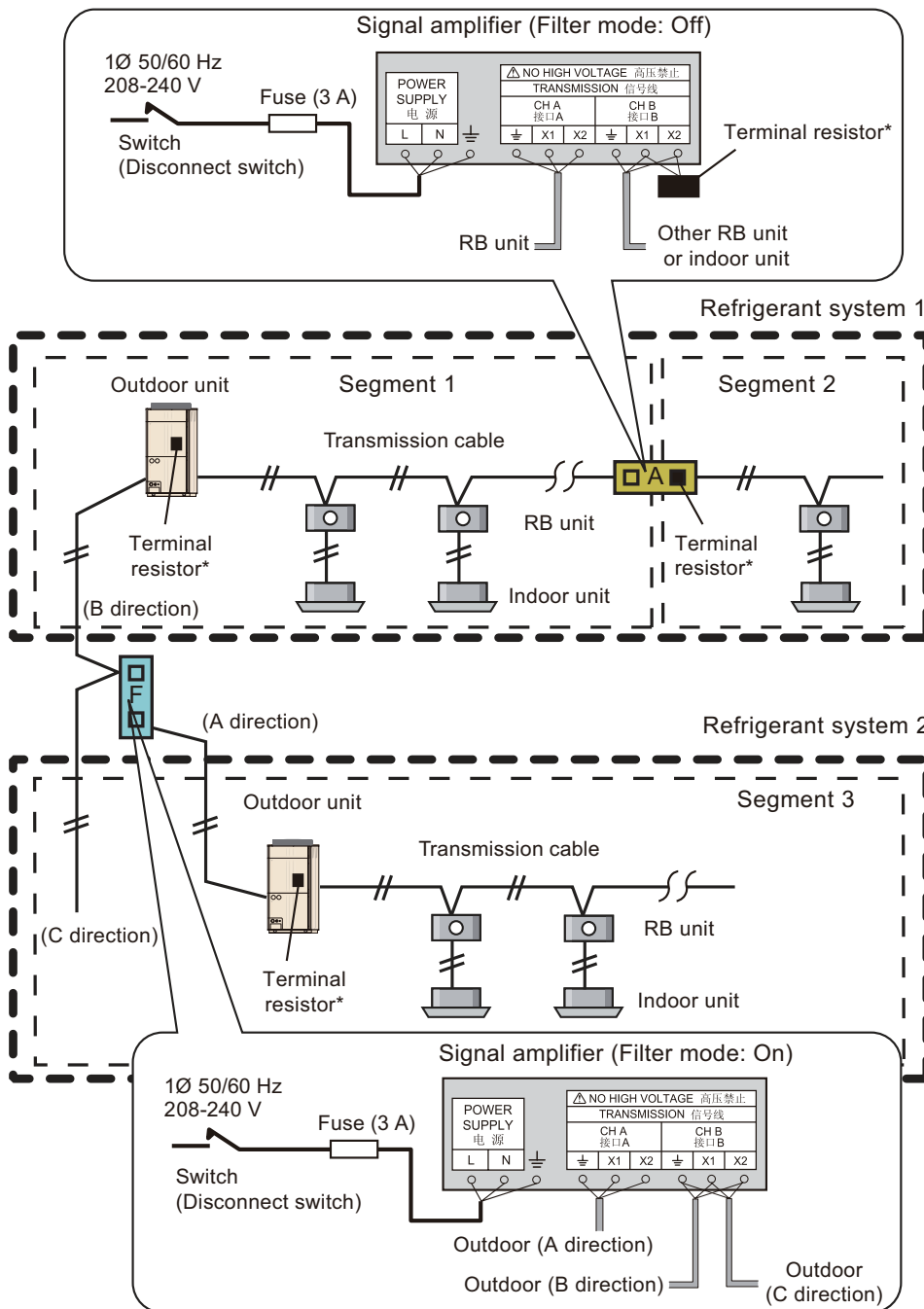
■ Electrical wiring

- Except in the case of V and S series (indoor units is installed 320 units or less)



*: Make sure to install 1 piece of terminal resistor to each segment. Terminal resistor is provided for each outdoor unit, but confirm that there is only one terminal resistor in the same segment.

• Case of VR-II (321 or more indoor units are installed)



*: Make sure to install 1 piece of terminal resistor to each segment. Terminal resistor is provided for each outdoor unit, but confirm that there is only one terminal resistor in the same segment.

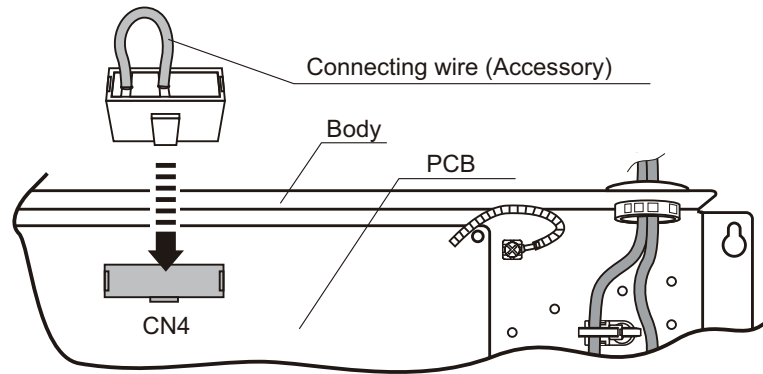
CONTROL SYSTEM

CONTROL SYSTEM

• **Filter mode setting**

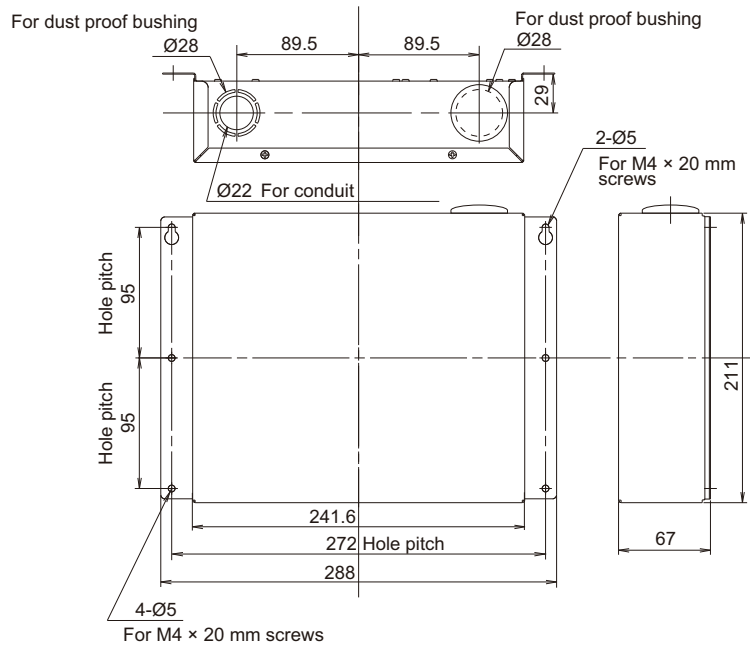
Set the filter mode to suppress an increase of the amount of communication information in the Heat recovery system.

- Filter mode is turned on by inserting the accessory connecting wire at the CN4 connector on the PCB.
- When the filter mode setting is changed, turn the power off once. Otherwise, the setting will not be recognized.



■ **Dimensions**

Unit: mm



CONTROL SYSTEM

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■ Specifications

| | | | |
|------------------------|-----------|----|---------------------------------|
| Power supply | | V | 1 Ø AC 208—240 |
| Power source frequency | | Hz | 50/60 |
| Input power | | W | 4.5 |
| Temperature | Operating | °C | 0 to 46 |
| | Packaged | °C | -10 to 60 |
| Humidity | Packaged | % | 0 to 95 (RH) No condensation |
| Dimensions (H × W × D) | | mm | 67 × 288 × 211 |
| Weight | | g | 1,500 |
| Fuse capacity | | A | 3 |

● Wiring specifications

| Use | Cable size | Wire type | Remarks |
|--------------------|-----------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Power supply cable | 0.5 to 1.25 mm ² (20 to 16 AWG) | 60245 IEC 57 or equivalent | 1 Ø AC 208—240 V 50/60 Hz, 2 wire + ground (Always ground the unit) |
| Transmission cable | 0.33 mm ² (22 AWG) | LEVEL 4 (NEMA) Non-polar 2 core, twisted pair solid core shielded | LonWorks compatible cable |