

CHAPTER 2 STORAGE AND INSTALLATION

2-1 Storage

The drive should be kept in the shipping carton before installation. In order to retain the warranty coverage, the Drive should be stored properly when it is not to be used for an extended period of time.

Ambient Conditions:

Operation	Air Temperature: -10°C to +50°C (14°F to 122°F) Atmosphere pressure: 86 to 106 kPa Installation Site Altitude: below 1000m Vibration: Maximum 9.80 m/s ² (1G) at less than 20Hz Maximum 5.88 m/s ² (0.6G) at 20Hz to 50Hz
Storage	Temperature: -20°C to +60°C (-4°F to 140°F) Relative Humidity: Less than 98%, no condensation allowed Atmosphere pressure: 86 to 106 kPa
Transportation	Temperature: -20°C to +60°C (-4°F to 140°F) Relative Humidity: Less than 98%, no condensation allowed Atmosphere pressure: 86 to 106 kPa Vibration: Maximum 9.80 m/s ² (1G) at less than 20Hz, Maximum 5.88m/s ² (0.6G) at 20Hz to 50Hz
Pollution Degree 2: good for a factory type environment.	

2-2 Installation



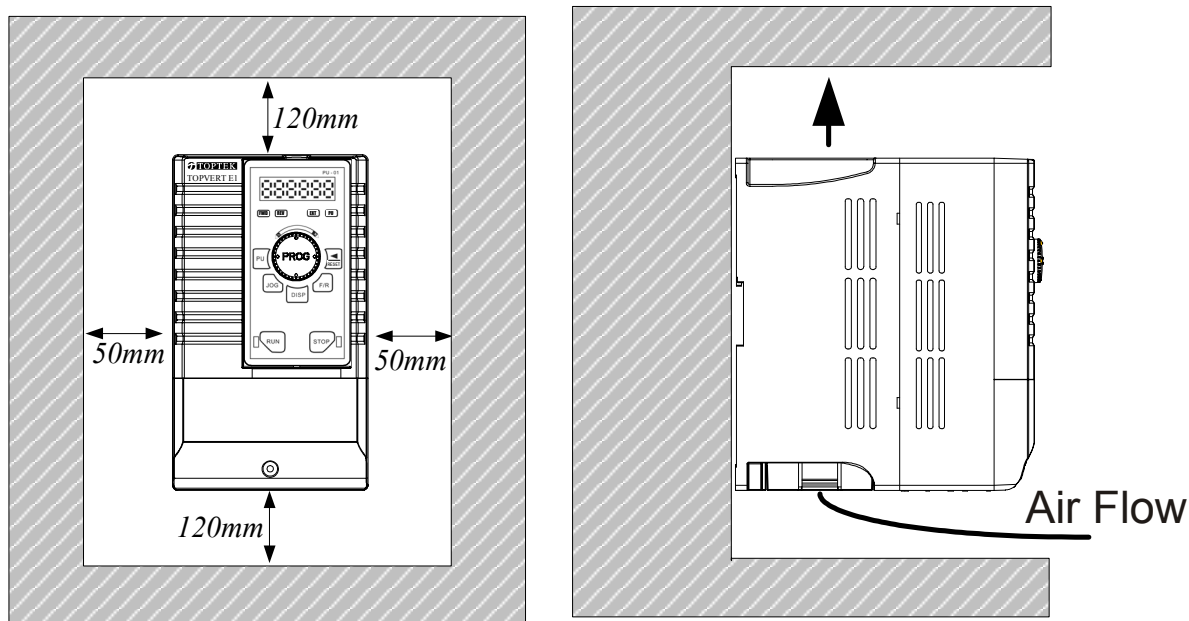
CAUTION

The control, power supply and motor leads must be laid separately. They must not be fed through the same cable conduit / trenching.
High voltage insulation test equipment must not be used on cables connected to the drive.

Improper installation of the Drive will greatly reduce its life. Be sure to observe the following precautions when selecting a mounting location.

Failure to observe these precautions may void the warranty!

The Drive generates heat. Allow sufficient space around the unit for heat dissipation. Mount the Drive vertically and do not restrict the air flow to the heat sink fins.



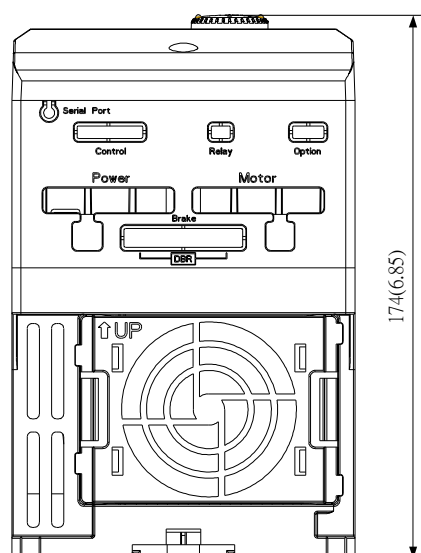
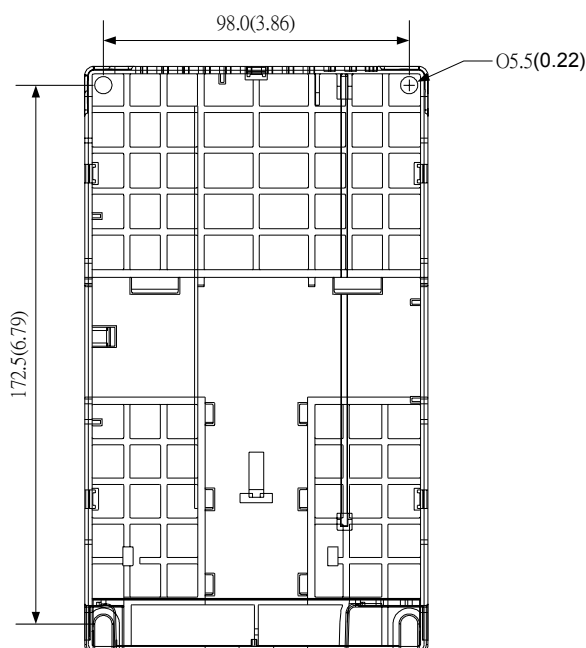
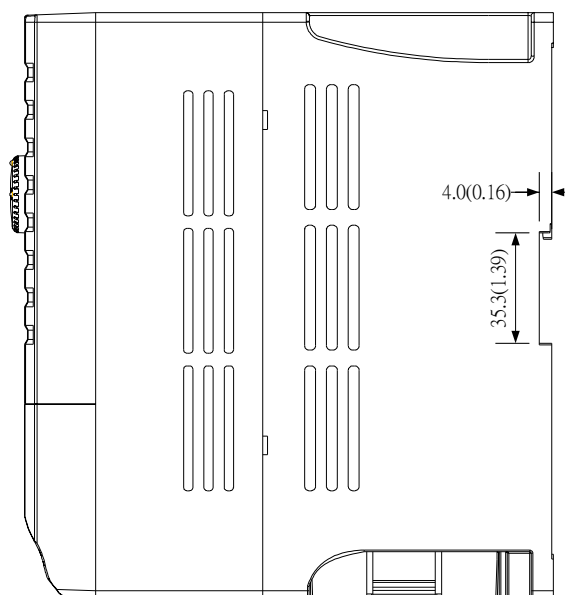
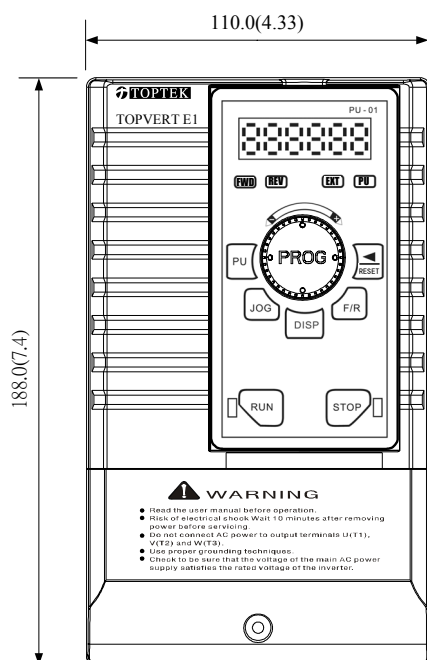
2-3 Installation Environment

- ▲ Do not install the Drive in a place subjected to high humidity, steam, dust areas.
- ▲ Do not install the Drive in a place subjected to corrosive gases or liquids.
- ▲ Do not install the Drive in a place subjected to airborne dust or metallic particles.
- ▲ Do not install the Drive in a place subjected to excessive vibration.
- ▲ Do not mount the Drive near heat-radiating elements
- ▲ Do not install the Drive in a place subjected to temperature exceed : -10°C to $+50^{\circ}\text{C}$
(14°F to 122°F)

2-4 Dimensions

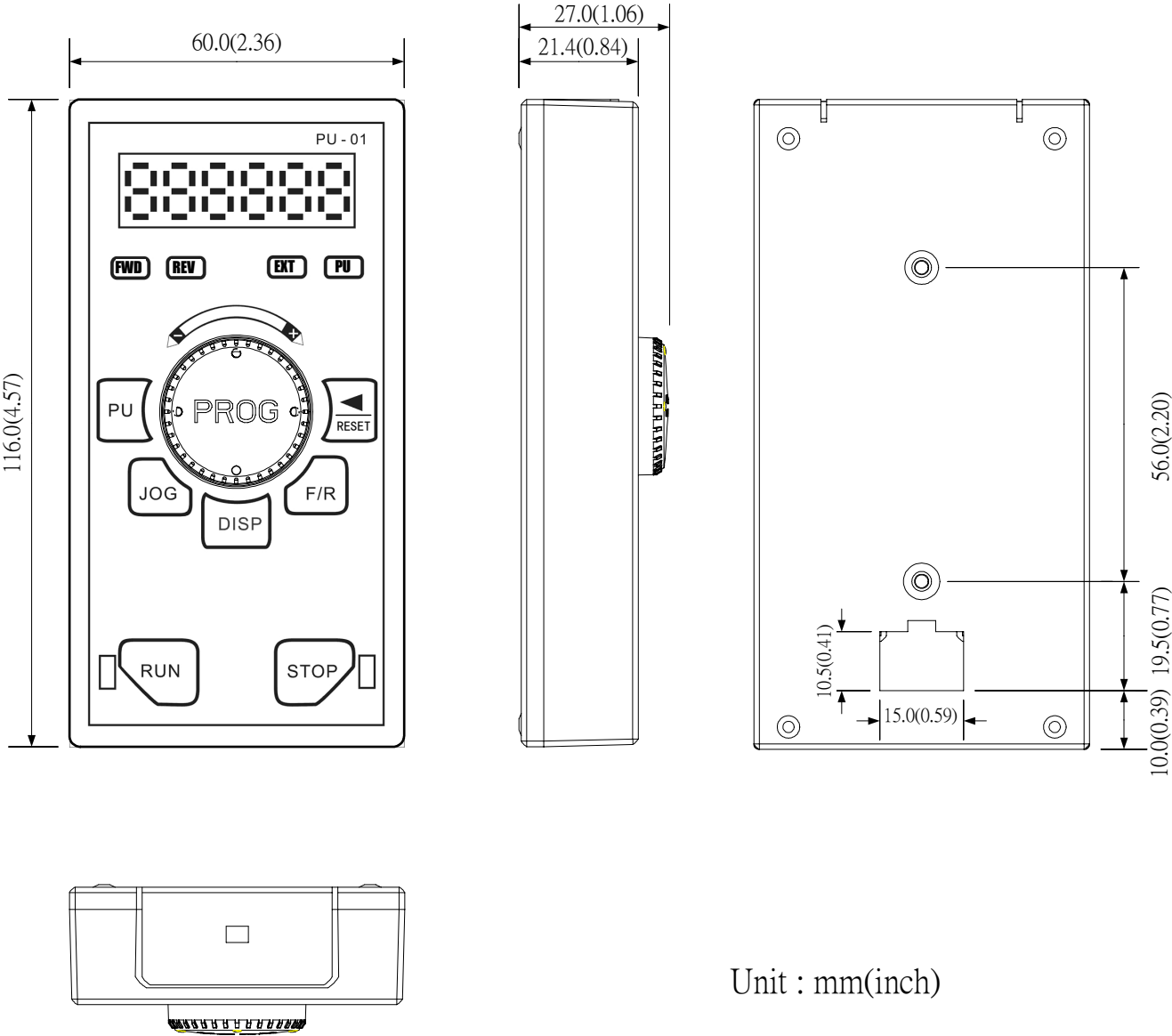
2-4-1 Frame Code: E1-A

Capacity [kW/Hp]	110V 1 Phase	230V 1 Phase	230V 3 Phase	460V 3 Phase
0.2/0.25	V	V		
0.4/0.5	V	V	V	V
0.75/1	V	V	V	V
1.5/2	V	V	V	V
2.2/3		V	V	V
3.7/5			V	V



Unit : mm(inch)

2-4-2 The Apparatus Size of the Digital Programming Keypad PU-01 and PU-02

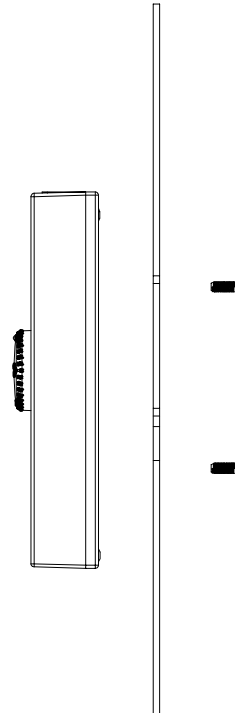
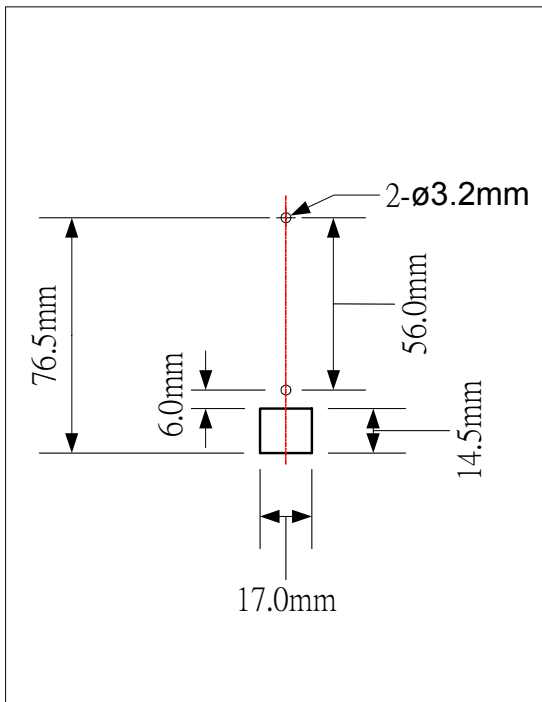


2-5 Digital Keypad Installation

- There are two installation methods: 1. Direct assembly
2. Using a remote panel adapter, PR-01 (Option)

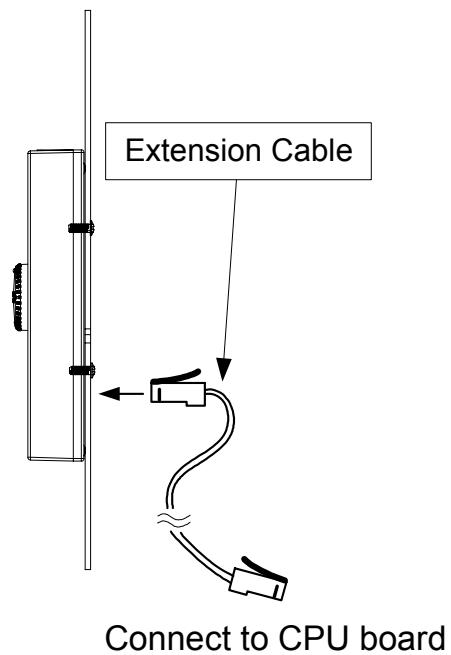
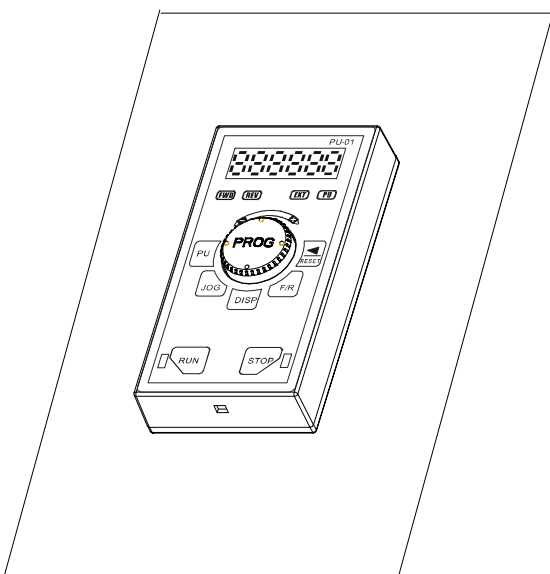
2-5-1 Direct assembly:

PU-01 Direct assembly figure is shown in below



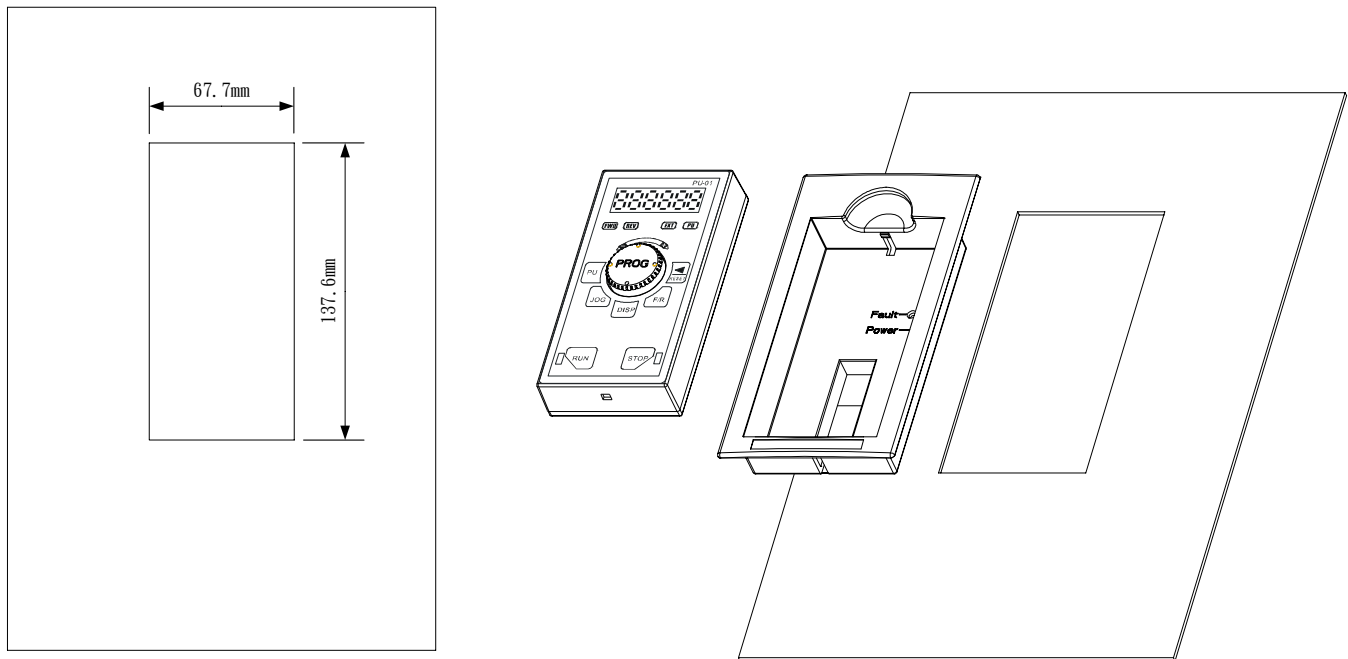
1. Based on above dimension, drill two holes, and make a square cutting.

2. Loose the screws on the backside of keypad



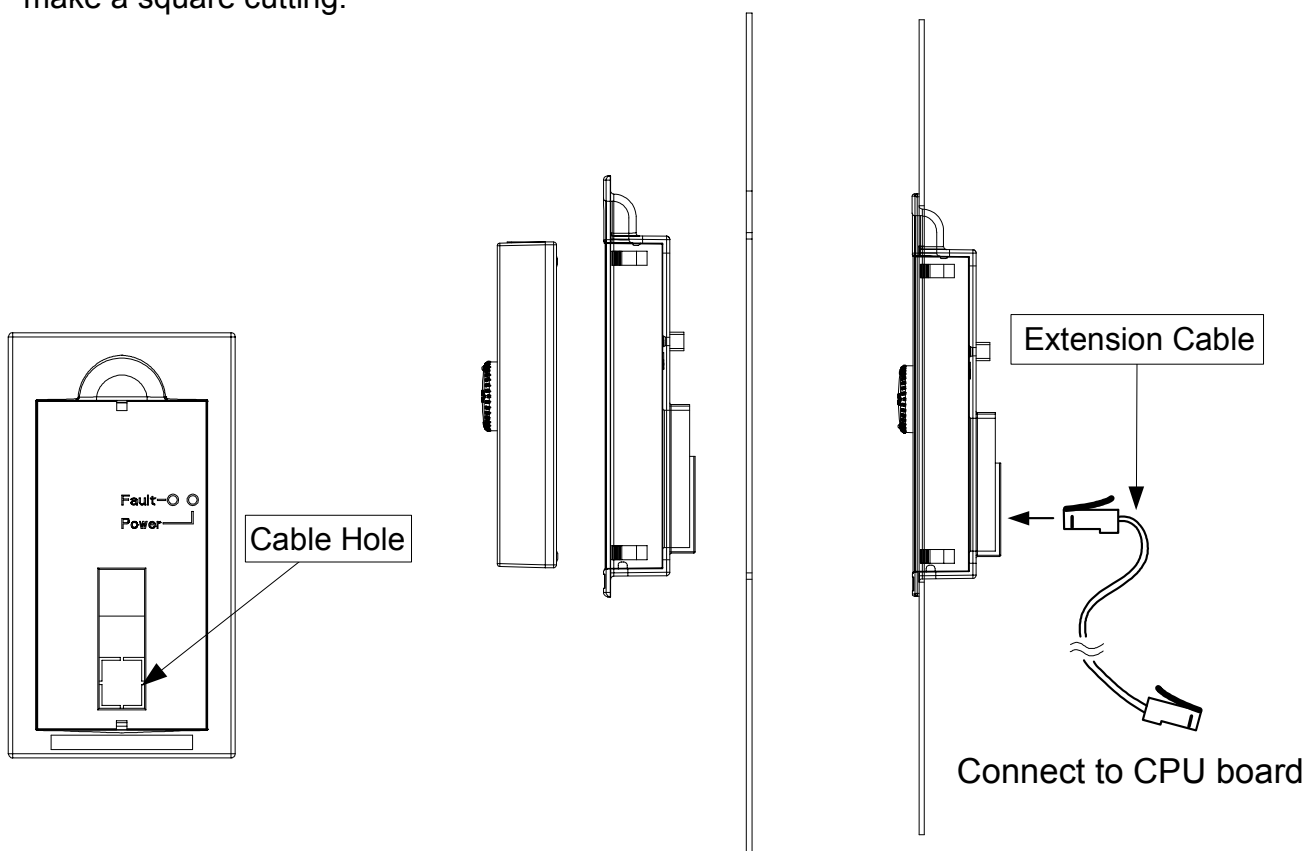
3. Adjust the keypad position to match the holes
4. Fix the screws, then connect the extension cable

2-5-2 While a remote panel adapter PR-01 is used (Option):



1. Based on above dimension, and make a square cutting.

2. Use the remote panel adapter



3. Remove the cable hole on the backside of panel adapter.

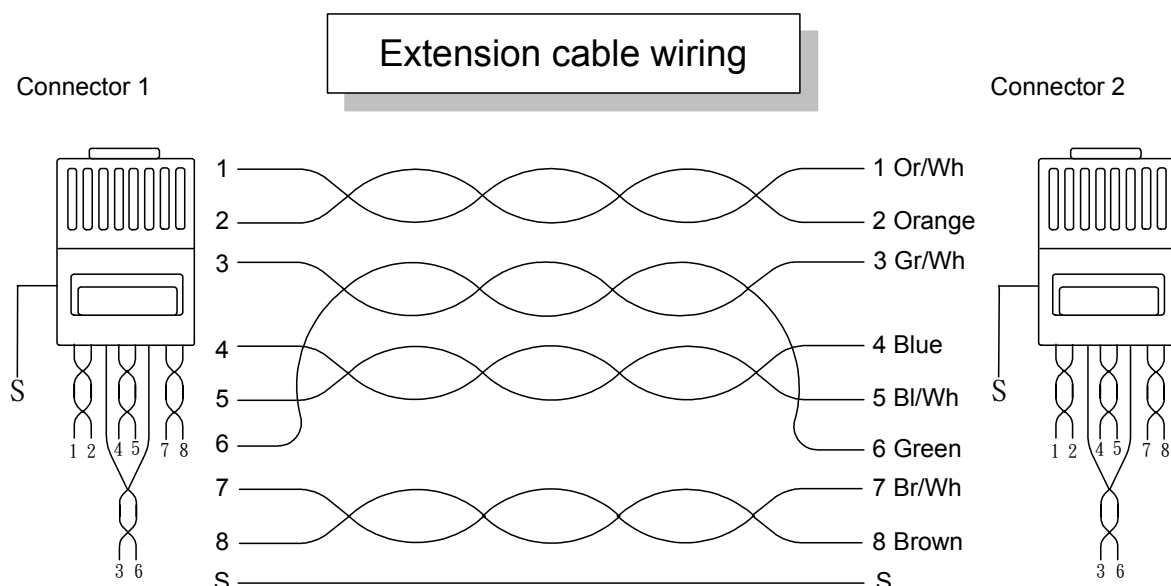
4. Align the keypad and adapter, then, fix them tight.

5. Connect the extension cable

2-5-3 Extension cable for Keypad

The extension cable is the RJ-45 8P8C twist-pair shield cable, commonly used in Ethernet. If you need a longer cable, you may make the cable by yourself. The maximum extension length is 150 meters.

For this, you need 2 extra RJ-45 connectors. The pin assignment two connectors as below:



2-5-4 Extension cable specifications

You may purchase the below standard lengths of cables from the dealers.

Specification	Ordering Number
8P8C, twisted and shield, 1M	TMCA-RC8P8C-001S
8P8C, twisted and shield, 2M	TMCA-RC8P8C-002S
8P8C, twisted and shield, 3M	TMCA-RC8P8C-003S
8P8C, twisted and shield, 5M	TMCA-RC8P8C-005S
8P8C, twisted and shield, 10M	TMCA-RC8P8C-010S
8P8C, twisted and shield, 15M	TMCA-RC8P8C-015S
8P8C, twisted and shield, 20M	TMCA-RC8P8C-020S
8P8C, twisted and shield, XXXM	TMCA-RC8P8C- <u>XXX</u> S (Contact dealer for other length)

⚠ DANGER!

When sourcing the extension cable from the market, some of them adopted RJ-45 shield jack without isolated rubber coating, the shield plate with hazardous voltages.

To avoid personal injury, do not touch the shield metal plate until all "DISPLAY LED" lights on the digital keypad are off.