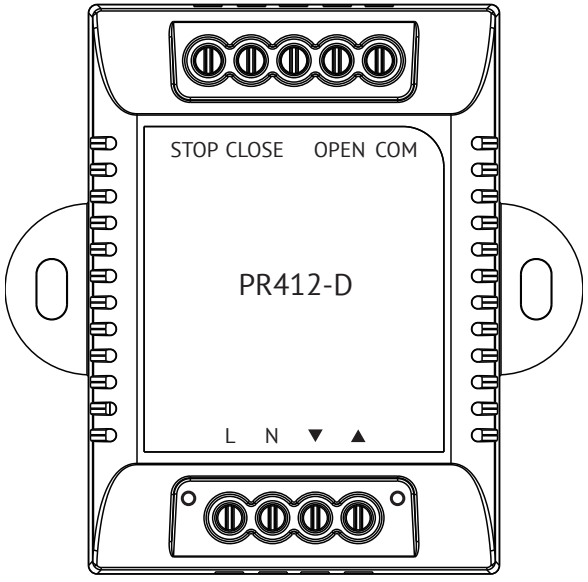


PR412-D Signal Controller

Quick Start Guide

Safety Handling

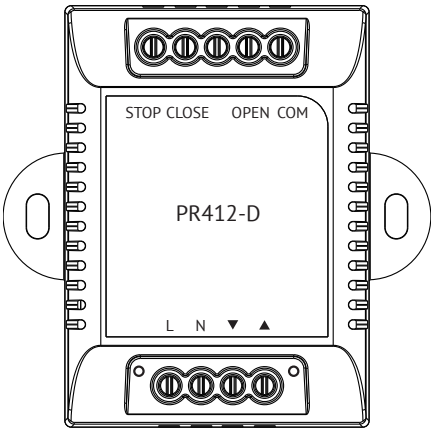
WARNING: Failure to follow these safety notices could result in fire, electric shock, other injuries, or damage to the Signal Controller and other property. Read all the safety notices below before using Signal Controller.

- Avoid high humidity or extreme temperatures.
- Avoid long exposure to direct sunlight or strong ultraviolet light.
- Do not drop or expose the unit to intense vibration.
- Do not disassemble or try to repair the unit yourself.
- Do not expose the unit or its accessories to flammable liquids, gases or other explosives.

Technical Specifications

Wireless Connectivity	• Zigbee 2.4GHz IEEE 802.15.4
RF Characteristics	• Operating frequency: 2.4GHz • Internal PCB Antenna • Range outdoor/indoor: 100m/30m
ZigBee Profile	• ZigBee HA1.2
Operating Voltage	• 100~240 VAC 50/60 Hz
Operating environment	• Temperature: -20°C ~+55°C • Humidity: ⩽ 91% non-condensing
Dimension	• 64 x 45 x 15 (L) mm
Weight	• 77g

1 Welcome



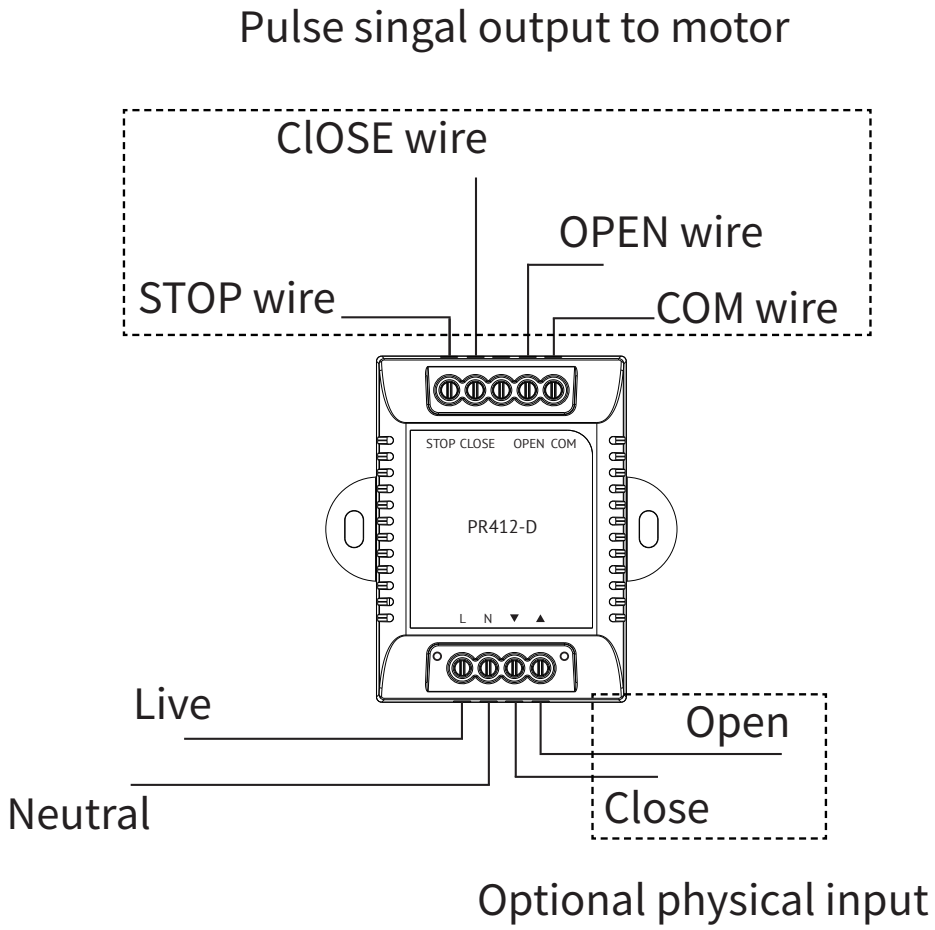
The Smart Signal Controller can send three kinds of control signals respectively. The main function is to control the state of the curtain motor by changing the external trigger signal, which can be controlled by the mobile APP.

This guide will help you get through the initial setup and installation.

2 Installation

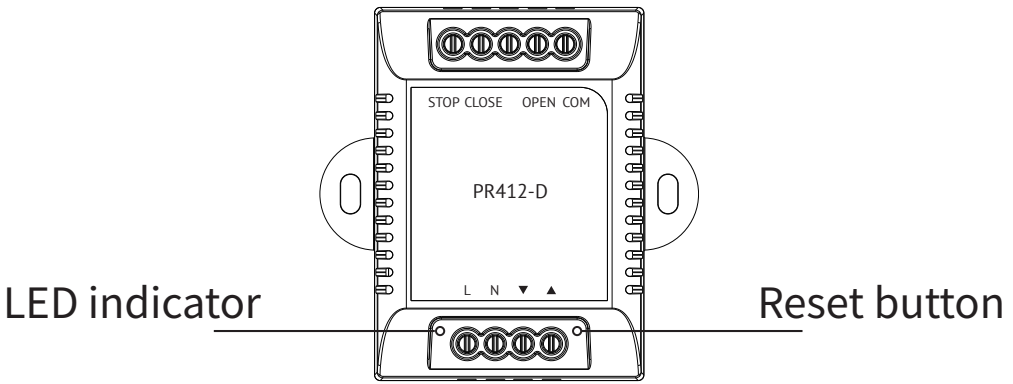
Please refer to the installation diagram below to install the Smart Signal Controller.

Please make sure the main power in your facility is off before installing.



Wiring diagram

3 Get to know your device



Reset button:

Press and hold the Reset button for about ten seconds until the LED indicator flashes three times to restore the Signal Contoller to default factory settings.

LED Indicator

The LED status gives the following information:

LED status	What it means
LED flashing	Device has not joined a network.
Solid	Device has joined a network.
Red LED solid	STOP
Green LED solid	OPEN or CLOSE

When using the device

A. When the red and black lines in " ▲ " are triggered, the "OPEN" is executed; when triggered for the second time, "STOP" is executed.

B. When the red and black lines in " ▼ " are triggered, the "CLOSE" is executed; when triggered for the second time, "STOP" is executed.

When using the App

OPEN: Each time the “OPEN” button is clicked, the COM terminal and OPEN terminal of the PR412-D will be turned on for 300ms, then disconnected, and the indicator light will be green.

CLOSE: Each time the “CLOSE” button is clicked, the COM and CLOSE terminals of the PR412-D will be turned on for 300ms, then disconnected, and the indicator light will be green.

STOP: Each time the “STOP” button is clicked, the COM and STOP terminals of the PR412-D will be turned on for 300ms, then disconnected, and the indicator light will be red.

4 Configure Network

4.1 To get started, you will need:

- Zigbee Gateway
- A mobile phone with a mobile APP installed

4.2 Adding to the gateway's network

Install the Signal Controller and the LED indicator will start flashing (reset the Signal Controller if not).

1. Set your ZigBee gateway to permit joining and the Signal Controller will join the gateway's network automatically, the LED indicator will turn steady when successfully joined.
2. Check your mobile App, and you will be able to see your Signal Controller. If not, reset the Signal Controller and repeat step 2.