

# **INSTALLATION & MAINTENANCE INSTRUCTIONS ON THE PCR-5CU 5 CHANNEL AND PCR-9CUW 9 CHANNEL REMOTE CONTROL SYSTEM**

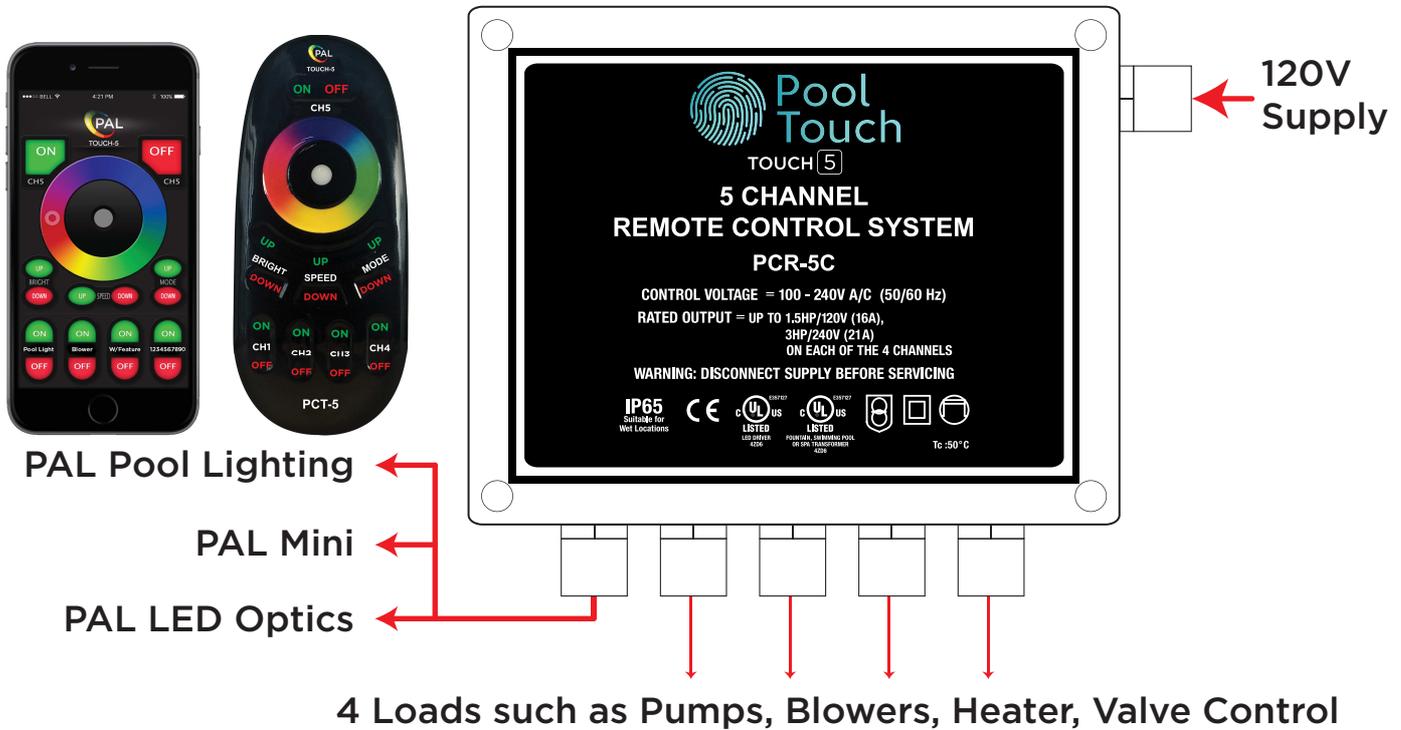
## **FEATURES**

- ☐ Easy to Install
- ☐ Approved to UL1563 & CSA C22.2 No. 218-1-13  
Pending
- ☐ Remote Control Operation only on the PCR-5CU  
from PCT-5 Transmitter
- ☐ UL Listed Class 2 Power Supply
- ☐ Optional Wi-Fi Control from Apple iOS Devices  
or Android Devices
- ☐ Color Touch Technology

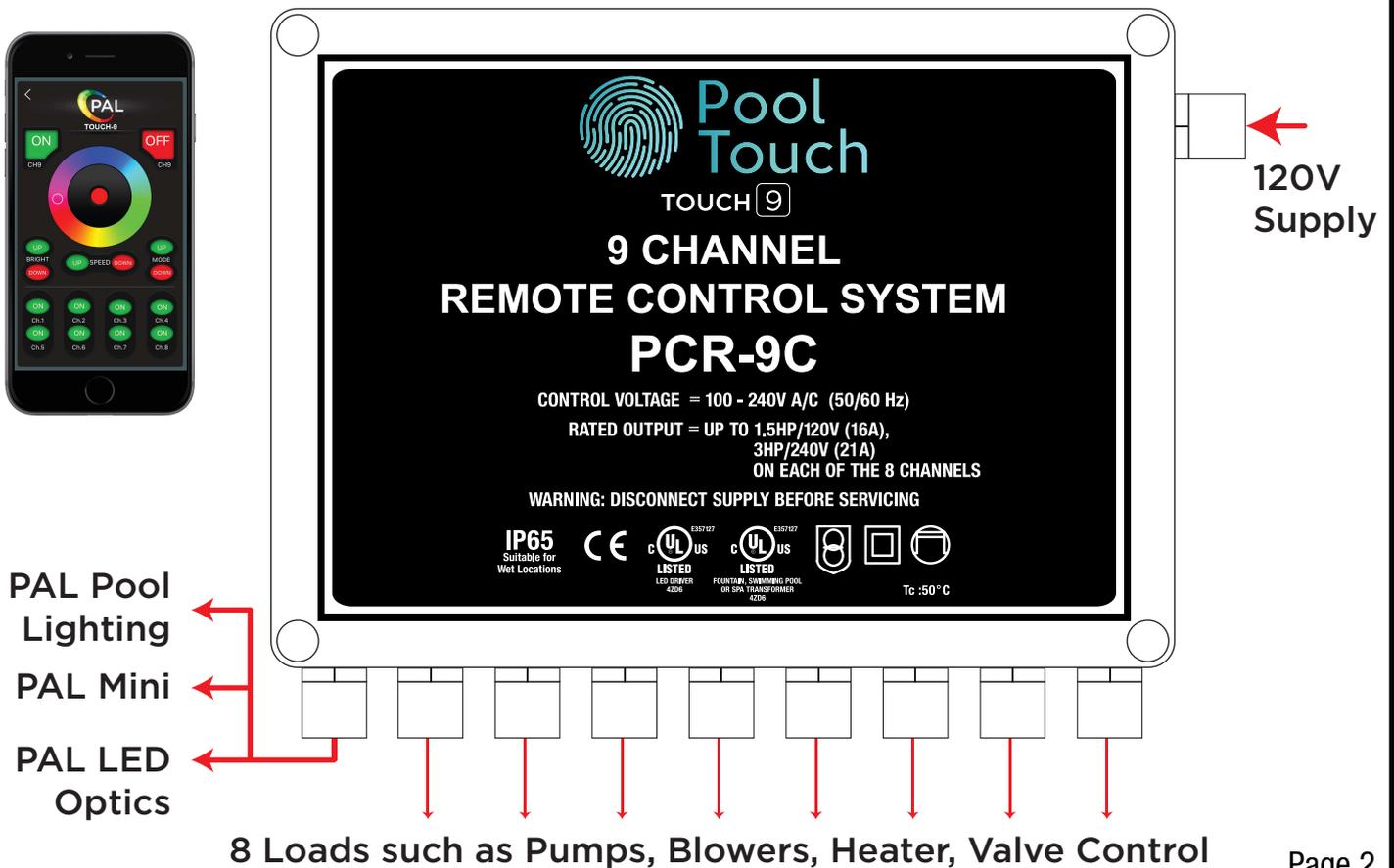


# INSTALLATION INSTRUCTIONS FOR PCR-5CU 5 CHANNEL AND PCR-9CU 9 CHANNEL REMOTE CONTROL SYSTEM

- ☐ The **PCR-5C** is a 5 Channel Remote Control System. As shown in the illustration below the system is controlled by TOUCH from the PCT-5 Transmitter or by optional Wi-Fi Control from Android or Apple Smart Phones and Tablets.



- ☐ The **PCR-9C** is a 9 Channel Remote Control System. As shown in the illustration below the system is only controlled by TOUCH from the Wi-Fi Control from Android or Apple Smart Phones and Tablets.



## IMPORTANT INFORMATION

The PCR-5C/PCR-9C must be installed in accordance with the National Electrical Code by a Certified Electrician or Qualified Pool Technician.

## INSTALLATION INSTRUCTIONS FOR PCR-5C/9C RGB OUTDOOR CONTROLLER

Step 1. The PCR-5C/9C Enclosure must be located a minimum distance of 5 feet measured horizontally from the inside wall of the pool and not less than 1 foot above the maximum pool water level measured to the top of the PCR-5 Enclosure.

**NOTE:** The enclosure must be mounted using the mounting feet on the enclosure with the 4x 6# x 3/4" long 316 grade stainless steel screw set supplied.

If the enclosure is to be mounted on a concrete or block wall:

Mark out the mounting hole locations and drill 3/16" holes using a masonry drill then fit the Star Plugs supplied into the holes and fix using the stainless steel screws supplied.

Step 2. Using the conduit entry in top right hand side of the PCR-5C/PCR-9C (as shown) connect the 100-120V power supply to the NEC code requirements.

Step 3. Using the conduit entries at the bottom of the PCR-5C/PCR-9C (as shown) to connect the switch wires to the Power Relays.

Step 4. The PCR-5C Driver / Receiver is factory set to operate with the PCT-5 Transmitter supplied. Just fit the 2 x batteries supplied with the PCT-5 and the Transmitter is coded ready to provide Touch control to the system.

Please refer to the information supplied with the PCT-5 transmitter for full operating instructions and features of the system.

Step 5. To operate any of the five channels from the PCT-5 transmitter just simply press the "ON" from the selected channel to start and by pressing "OFF" to turn off.

## 2 SPEED SELECTION ON CHANNEL 4

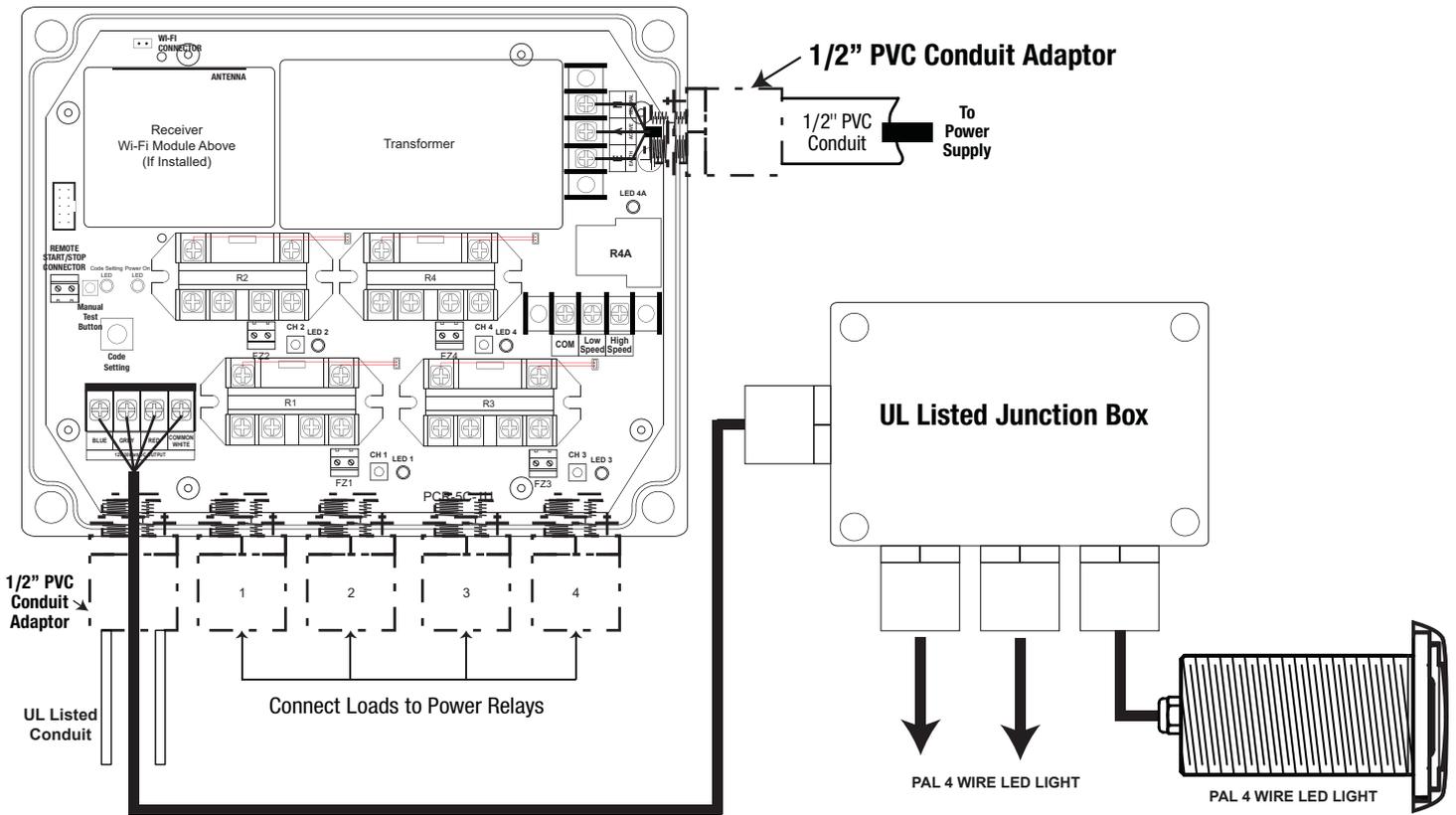
Channel 4 can control 2 Speed Pumps if wired as shown on Page 5.

If the "ON" button is pressed on Channel 4 once the motor will start in HIGH Speed. To select LOW speed press the "ON" button twice and after 3 minutes to allow the pump to prime in HIGH speed the power relays will change over to LOW speed.

NB: If the motor is run for longer than 3 minutes in HIGH speed by pressing the "ON" button on Channel 4 it will change the power relays to LOW speed.

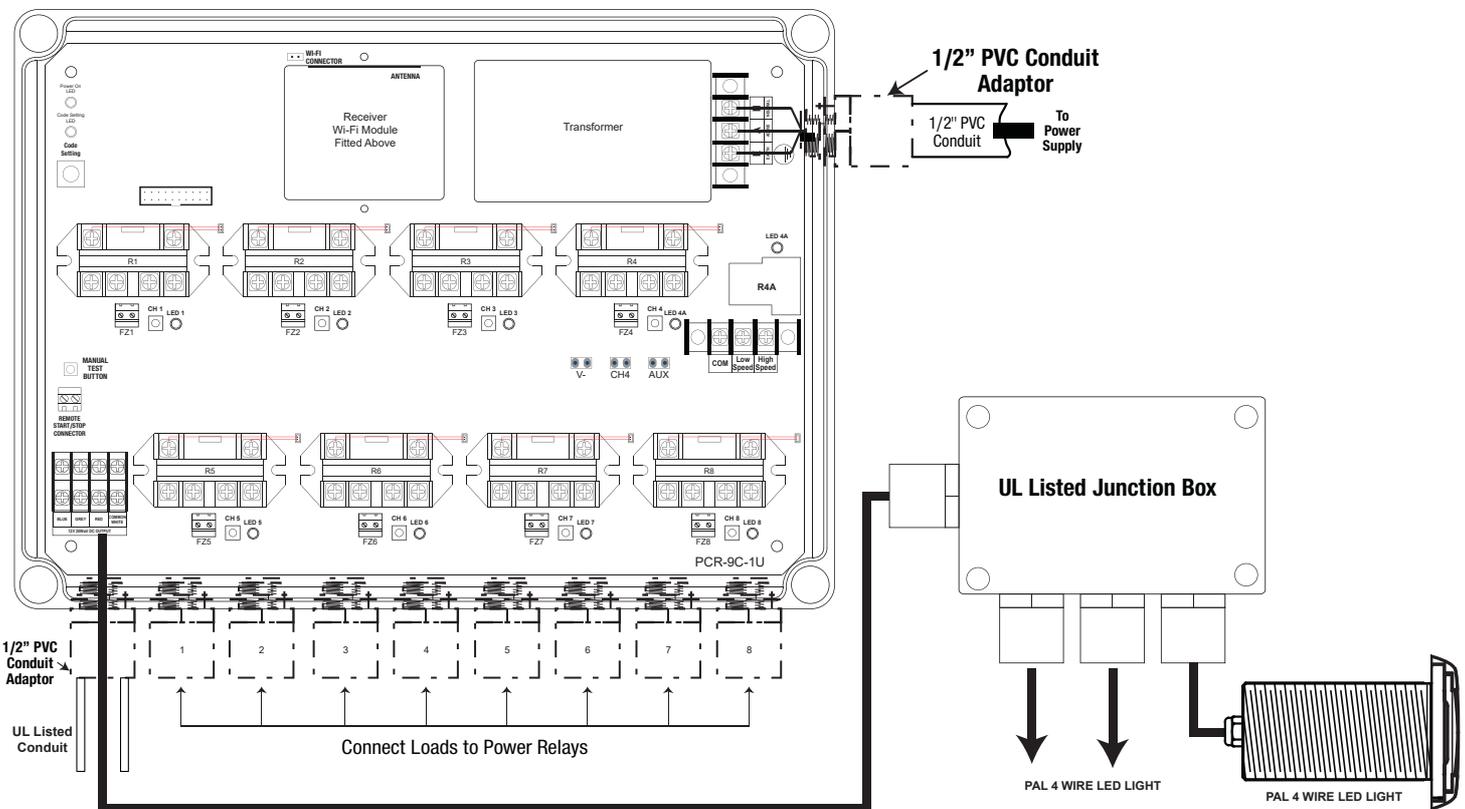
# CABLE CONNECTION DETAILS FOR PCR-5CU CHANNEL 5 LIGHTING CIRCUIT

## PCR-5CU



# CABLE CONNECTION DETAILS FOR PCR-9CU CHANNEL 9 LIGHTING CIRCUIT

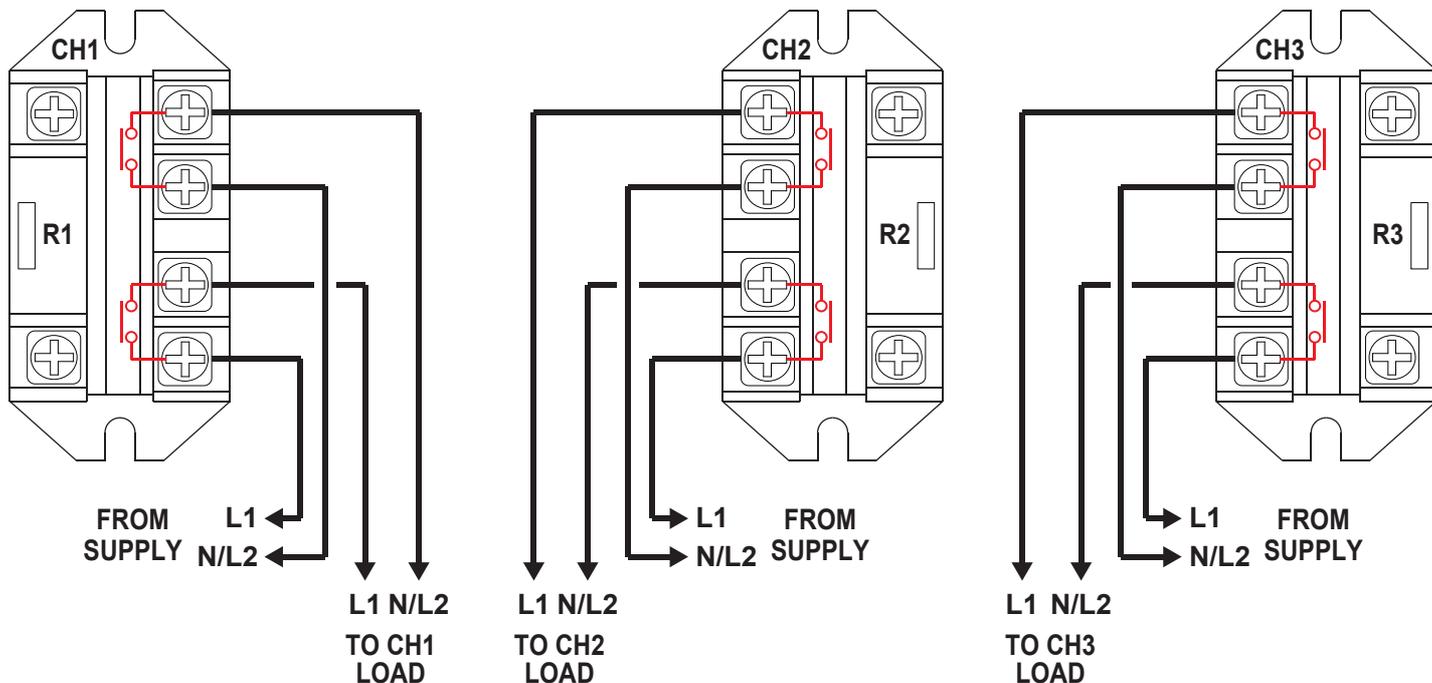
## PCR-9CU



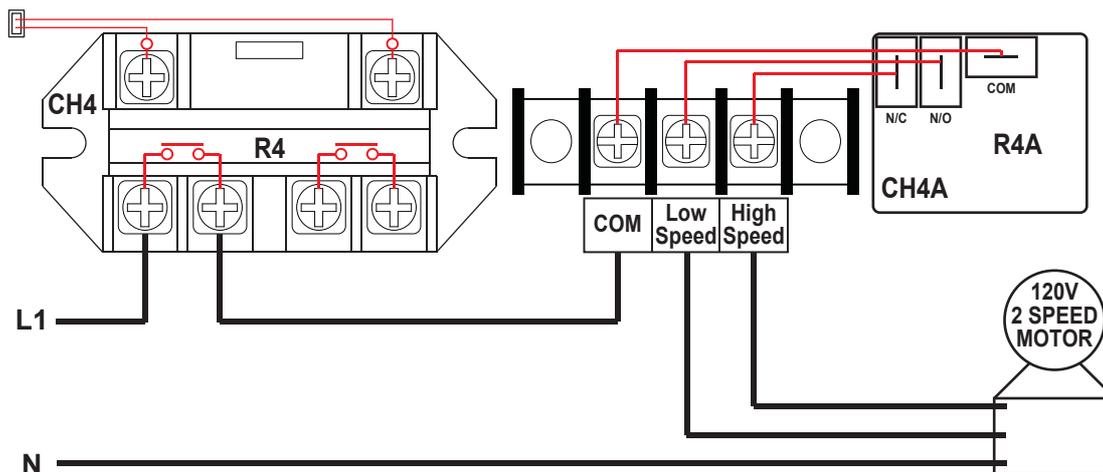
Step 1. Using the conduit entries at the bottom of the PCR-5C/9C (as shown). Connect the 4 core wire from the PAL 4 WIRE LED LIGHTS. **Please ensure the 4 cores are connected to the correct terminals.**

Step 2. **1 x output conduit entries are provided in the enclosure to connect up to 8 x PAL-LED 4 Wire Pool Lights fitted with LAU-4 LED Lamps via UL Listed Junction Box.**

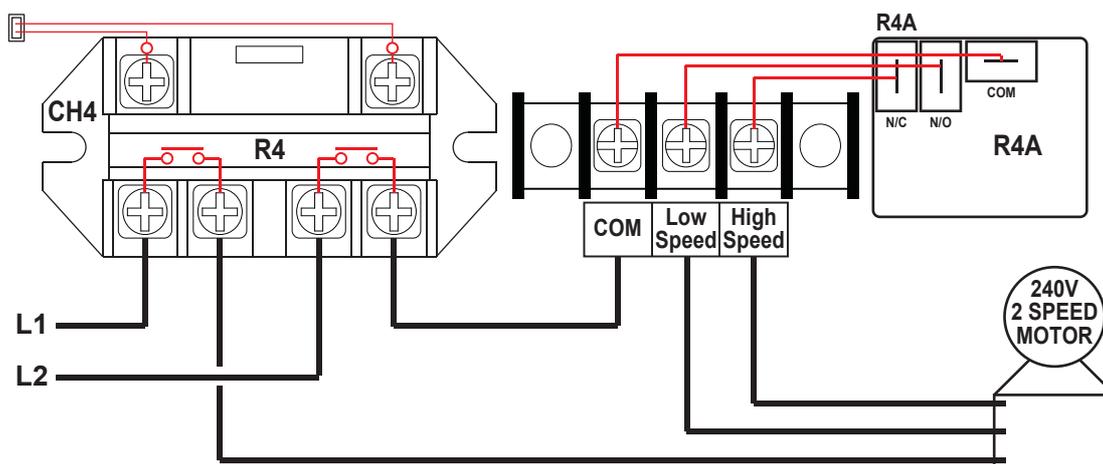
## CABLE CONNECTION DETAILS FOR CHANNEL 1, 2 & 3



## CABLE CONNECTION DETAILS FOR CHANNEL 4 FOR 120V 2 SPEED MOTOR



## CABLE CONNECTION DETAILS FOR CHANNEL 4 FOR 240V 2 SPEED MOTOR



# OPERATING INSTRUCTIONS FOR PCR-5CU/9CUW 5/9 CHANNEL when TOUCH-5 Wi-Fi Module is Installed in PCR-5C

## Apple iOS

**Step 1. Download  App to your iPhone or iPad from the iTunes App Store.**

Enter "pal lighting" as your search term and touch on OPEN to install.



## Android OS

**Step 1. Download  App to your Android phone from the Google Play Store.**

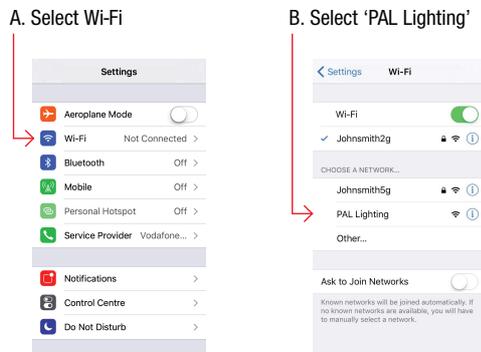


Enter "pal lighting" as your search term and touch on **INSTALL** to install the application.

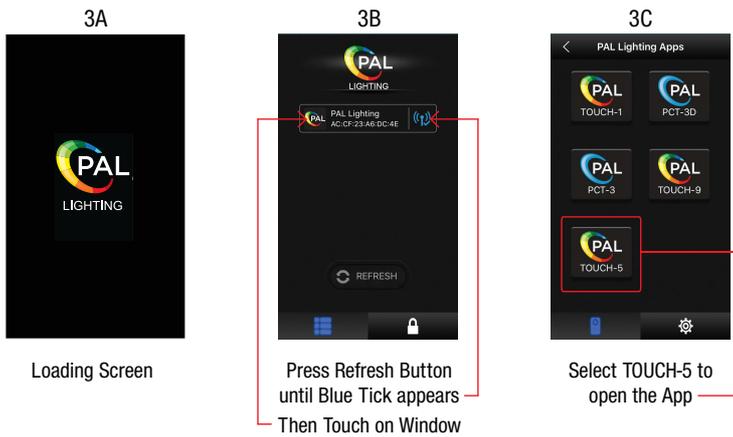
**DO NOT** open the application yet.

**Step 2. Return to the Main Menu. Touch the  icon.**

This will take you to the Settings page.



**Step 3. Return to the Main Menu. Touch  to open the application.**



**Step 4. Operating the Touch-5 App.**



When "ON" is selected you can then control the color, brightness, mode & color change speed of your PAL Color Touch Light System as outlined in the adjacent instructions.

# OPERATING INSTRUCTIONS FOR PCR-5CU/9CUW 5/9 CHANNEL when TOUCH-5 Wi-Fi Module is Installed in PCR-5C

## Step 5. Channel Naming Procedure



By pressing down the channel button you can detail the channel name.

Type in selected channel name then select ok

The channel name will appear.

Maximum number of characters that can be entered:

iPhone 5/6 = 12 characters

iPad = 10 characters

## Step 6. Operating the Unit



### COLOR WHEEL

Can select any color from the color wheel.

Can select Brightness (BRIGHT) on any selected color.

### OPERATIONAL LED

Color selected is displayed here

### MODE SELECTION

#### Up & Down

1. White - Can change Brightness (BRIGHT) [Default]
2. Color Change - Can change Brightness (BRIGHT) & Speed (SPEED)  
Red, Amber, Green, Aqua, Blue, Purple, White with initial setting of 2 second delay.  
This time can be increased to 4, 6, 8 or 10 Sec by pressing (SPEED DOWN)
3. Disco - Can change Brightness (BRIGHT)
4. White Gradual Change - Can change Brightness (B) & Speed (S)
5. Blue Gradual Change - Can change Brightness (B) & Speed (S)
6. Green Gradual Change - Can change Brightness (B) & Speed (S)
7. Red Gradual Change - Can change Brightness (B) & Speed (S)

### 4 CHANNEL ON/OFF BUTTONS

### BRIGHTNESS Up & Down

5 Brightness Settings

(100%, 80%, 60%, 40%, 20%)

### SPEED Up & Down

5 Speed Settings

(2 sec, 4 sec, 6 sec, 8 sec, 10 sec)

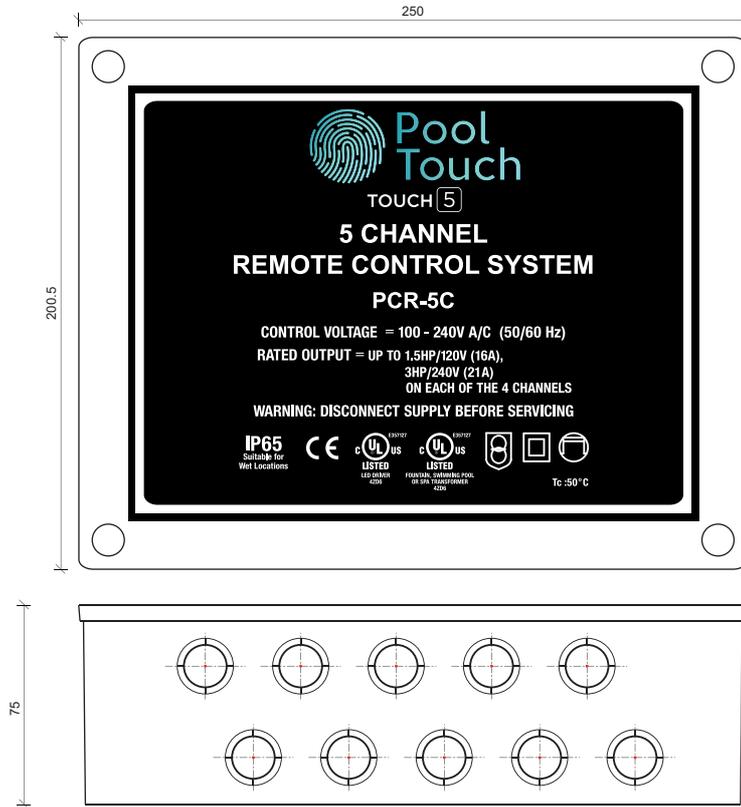
## FEATURES

1. Matching Code - Apply power to the receiver. Momentarily Press the Code Setting Button. Then press (UP) on Speed (SPEED) once within 2 seconds. The output light will flash white 5 times if matching is successful.
2. Clearing Code - Apply power to the receiver. Hold down (UP) on Speed (SPEED) for 5 seconds. The output light will flash 5 times if clearing the code is successful. After successfully clearing the existing code a new code will have to be applied by following the matching code procedure above.
3. 1 Transmitter (PCT-5) can operate an unlimited number of Receivers (PCR-4)
4. 1 Receiver (PCR-4) can be controlled by a maximum of 4 Transmitters (PCT-1) or (PCT-5)
5. Touching the color wheel will reset any Mode selection.
6. Memory Feature - Remembers color selection after being switched off.
7. Once the transmitter and receiver are successfully coded the receiver will remember the code if powered off.

For more detailed instructions on using the Wi-Fi unit please download the full set at:  
<http://pallightingusa.com/wp-content/uploads/2017/05/Touch5wifiinstu.pdf>

# DIMENSIONAL DETAILS

## PCR-5CU



## PCR-9CU

