INSTALLATION MANUAL
7820B/RGBW

LED BUILT IN | III | DIMMABLE −+
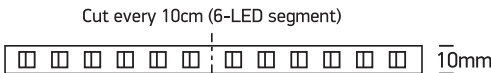
24V DC | SMD 5050 | 60LEDs/m | 19W/m | IP20 | SPI | TUYA
Requires 24V DC driver.
Supplied in 5m roll with double face adhesive tape.

Cut every 10cm (6-LED segment)

10mm

one LIGHT

A. CUT:
The LED strip can be cut every 10cm (6-LED segment) at the clearly marked positions. Cut carefully at the desired length by using a sharp pair of scissors.

B. INSTALLATION:
Remove the 3M double face adhesive tape from the LED strip gradually during installation and fix into the required position.
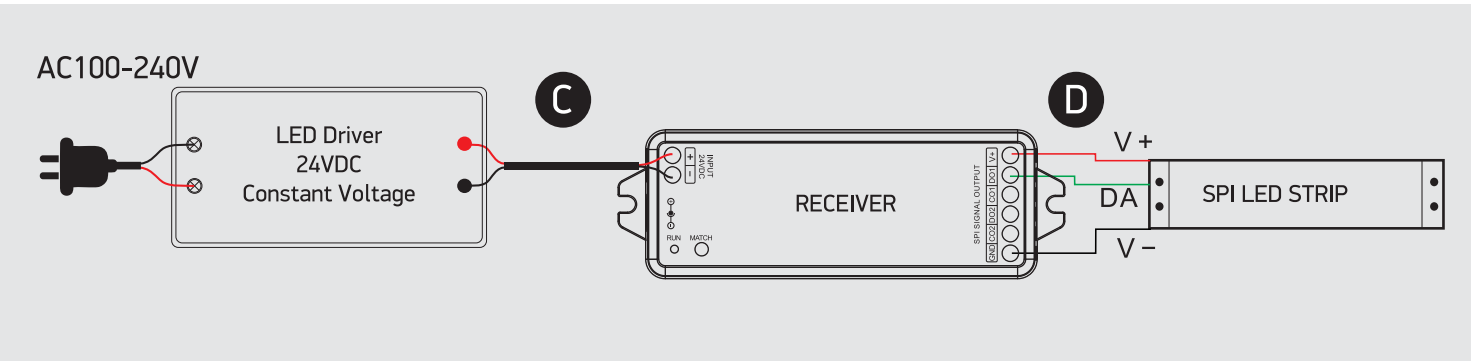
C. CONNECT: the receiver to the 24V DC LED Driver.

D. CONNECT: the LED strip to the receiver. Ensure that the polarity is correct:
V+ on the receiver is the red wire, **DO1** on the receiver is the green wire, **GND** on the receiver is the white wire.

WIRING DIAGRAM:

AC100-240V

LED Driver 24VDC Constant Voltage

C

RECEIVER

RUN   MATCH

SPI SIGNAL OUTPUT

D

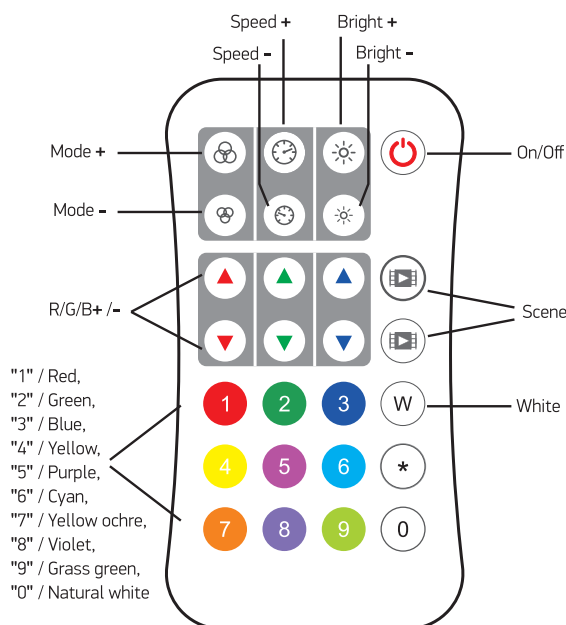V +

DA

V −

SPI LED STRIP

Warnings:
1. The mounting surface must be clean, dry and free from dust or grease.
2. Make sure that the product is installed properly before connecting to electricity.
3. Do not bend, fold or twist the LED strip.
4. Do not bend to install in corners.
5. Do not put excessive pressure on surface of LED strip.
6. Do not cover LED strip with any materials.
7. Do not install in ambient temperatures below -10°C or exceeding 45°C.
8. Always handle the LED strip with care.
9. The LED strip should not be exposed to direct sunlight.
10. LED strips with different batch numbers may have slight variations in colour consistency (CCT±150K).
11. Maintenance and installation should only be carried out by a professional electrician.

www.1-light.eu

REMOTE CONTROL:

Speed **+**
Speed **–**
Bright **+**
Bright **–**

Mode **+**
Mode **–**

R/G/B**+ /–**

"1" / Red,
"2" / Green,
"3" / Blue,
"4" / Yellow,
"5" / Purple,
"6" / Cyan,
"7" / Yellow ochre,
"8" / Violet,
"9" / Grass green,
"0" / Natural white

On/Off
Scene
White

Mode + / –
Short press switch dynamic mode,
long press 2s Mode+ run mode cycle,
long press 2s Mode–run the first mode.

Speed + / –
Short press 10 levels,
long press 2s get the fastest/slowest speed.

Bright + / –
Short press 10 levels,
long press 1–6s for continuous 256 levels adjustment.

R/G/B + / –
Adjust R/G/B brightness respectively.
Short press 10 levels,
long press 1–6s for continuous 256 levels adjustment.

White
Short press turn on/off W channel,
long press 1–6s adjust W channel brightness continuously.

Scene
Short press recall the scene,
long press 2s save the current colour into the scene.
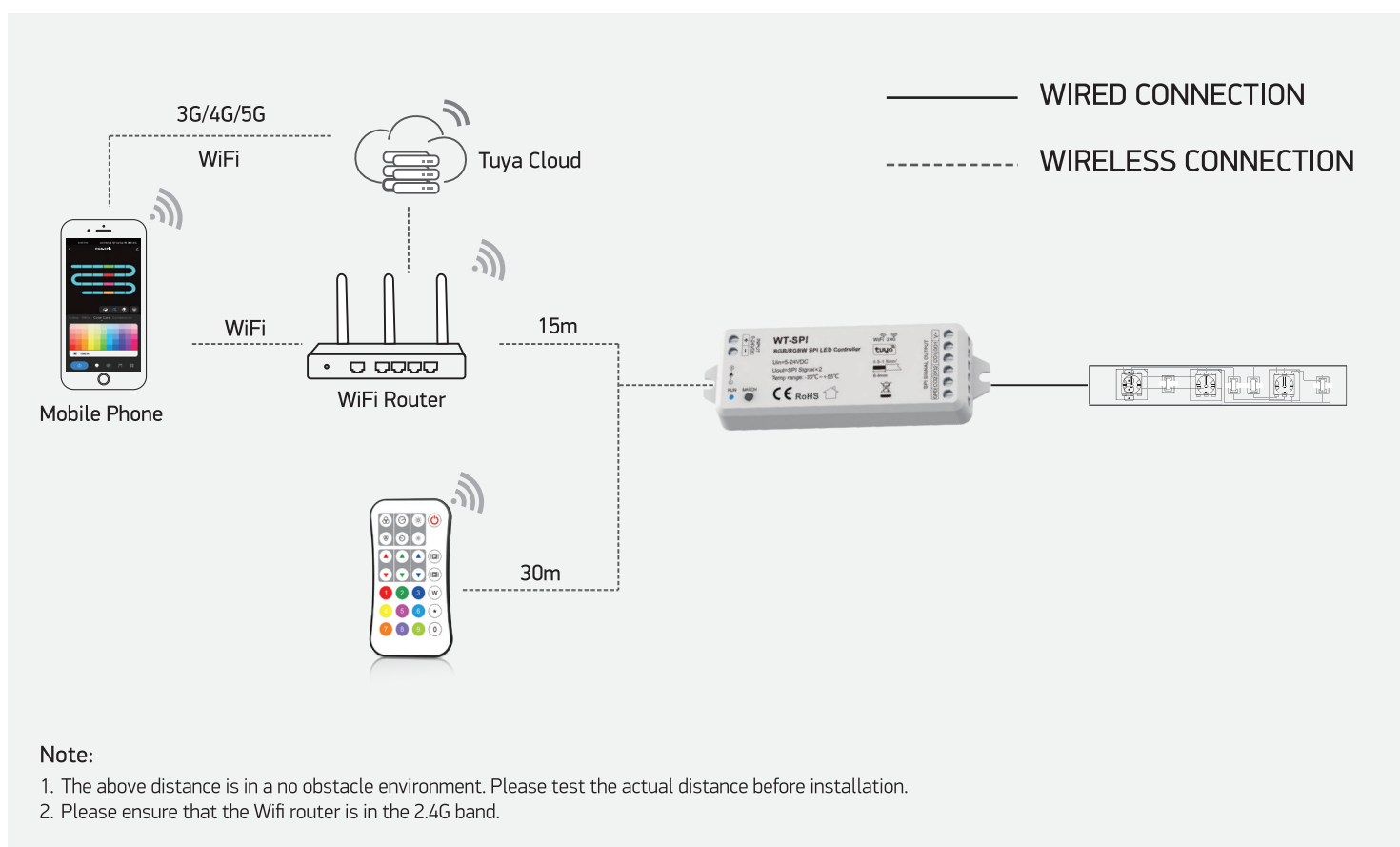
MATCH REMOTE CONTROL:

Match: Short press the match key on the receiver and immediately press the on/off key of the remote. The LED indicator will flash fast a few times which means the match is successful.
Delete: Press and hold match key for 10s to delete all match. The LED indicator will flash fast a few times means all matched remotes were deleted.

PROGRAMS: Selectable by using the Mode +/– buttons.

No.	NAME	No.	NAME
#1	Red horse race white ground, forward	**#21**	Green float, forward
#2	Green horse race white ground, forward	**#22**	Blue float, forward
#3	Blue horse race white ground, forward	**#23**	Purple float, forward
#4	Yellow horse race white ground, forward	**#24**	RGBW float, forward
#5	Cyan horse race white ground, forward	**#25**	Red Yellow float, forward
#6	Purple horse race white ground, forward	**#26**	Green Cyan float, forward
#7	7 color multi horse race, forward	**#27**	Blue Purple float, forward
#8	7 color horse race close + open	**#28**	Blue White float, forward
#9	7 color multihorse race close + open	**#29**	6 color float, forward
#10	7 color scan close + open	**#30**	6 color smooth sectionally, forward
#11	7 color multi–scan close + open	**#31**	7 color jump sectionally, forward
#12	Blue White chase, forward	**#32**	7 color strobe sectionally, forward
#13	Green Cyan chase, forward	**#33**	RGB jump
#14	RGB chase, forward	**#34**	RGB smooth
#15	7 color chase, forward	**#35**	RGB random jump
#16	Blue meteor, backward	**#36**	RGB random smooth
#17	Purple meteor, backward	**#37**	White flow, forward
#18	White meteor, backward	**#38**	White flow, forward on + backward off
#19	7 color meteor, backward	**#39**	White flow, forward on + backward on
#20	Red float, forward	**#40**	White float, forward

SYSTEM WIRING:

3G/4G/5G

WiFi

Tuya Cloud

————— WIRED CONNECTION

- - - - - - - WIRELESS CONNECTION

WiFi

15m

Mobile Phone

WiFi Router

30m

WT-SPI
RGB/RGBW SPI LED Controller

Uin=5-24VDC
Uout=SPI Signal×2
Temp range: -30°C~+50°C

CE RoHS

Note:
1. The above distance is in a no obstacle environment. Please test the actual distance before installation.
2. Please ensure that the Wifi router is in the 2.4G band.

Tuya APP

Please download the Tuya APP.

To enter pairing mode:
1) Press the MATCH key on the receiver twice quickly, OR
2) press and hold the MATCH key for 2 seconds to clear the previous matching.When in pairing mode the LED
indicator on the receiver will flash quickly.
3) Set the length to 0.60.

In case of failure, press and hold the MATCH key for 5 seconds. The LED indicator on the receiver will flash slowly.