0/1-10V RF + Push Dimmer
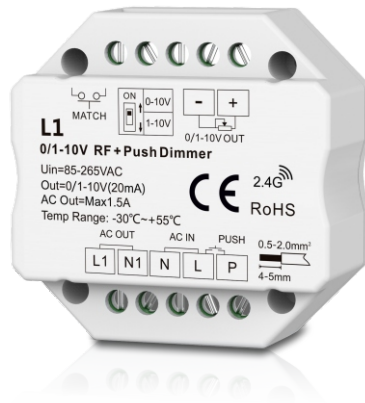
Model No.: L1

RF dimming/0-10V or 1-10V/AC relay output/AC Push-Dim/Wall junction box mounting

SKYDANCE

CE RoHS emc LVD

Features

- 0/1-10V RF or AC push dimmer, 1 channel output.
- Output 1 channel 0/1-10V signal, connect with 0/1-10V dimmable driver.
- High voltage AC input, High voltage AC relay output.
- 0-10V or 1-10V output selectable by DIP switch.
- 256 levels 0-100% dimming smoothly without any flash.
- Compatibility with Skydance's 2.4G single zone or multiple zone dimming remote control.
- Connect with external push switch to achieve on/off and 0-100% dimming function.
- Easy to be placed in standard wall junction box behind a push switch.

Technical Parameters

Input and Output	
Input voltage	AC85-265V
Output voltage	AC85-265V
Output signal	0/1-10V (20mA)
Output current	Max 1.5A (AC)

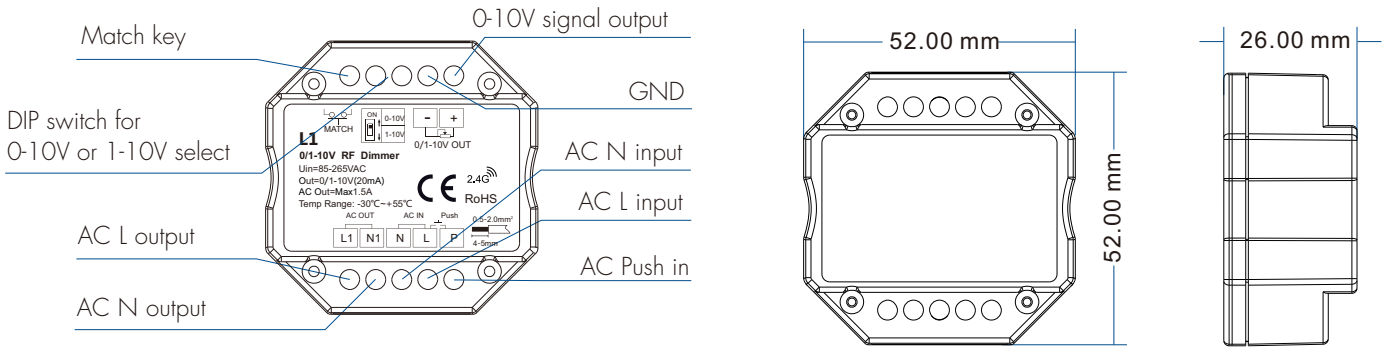| Dimming data	
Input signal	RF 2.4GHz + Push Dim
RF Control distance	30m
Dimming level	256 levels
Dimming range	0-100%

Safety and EMC	
EMC standard (EMC)	EN 55015:2013 EN 61547:2009 EN 61000-3-2:2014 EN 61000-3-3:2013
Safety standard(LVD)	EN 61347-2-11:2002 EN 61347-1:2015 EN 62493:2015
Certification	CE,EMC,LVD

Environment	
Operation temperature	Ta: -30 ℃ ~ +55 ℃
Case temperature (Max.)	Tc: +85 ℃
IP rating	IP20

Warranty	
Warranty	5 years

Mechanical Structures and Installations

Match key

0-10V signal output

DIP switch for
0-10V or 1-10V select

GND

AC N input

AC L input

AC L output

AC Push in

AC N output

L1
0/1-10V RF Dimmer
Uin=85-265VAC
Out=0/1-10V(20mA)
AC Out=Max1.5A
Temp Range: -30℃~+55℃

ON 0-10V
MATCH 1-10V

- +
0/1-10V OUT

2.4G
RoHS

AC OUT   AC IN   Push
L1 N1   N   L   P
0.5-2.0mm²
4-5mm

52.00 mm

52.00 mm

26.00 mm

Typical Wall Junction Box Mounting
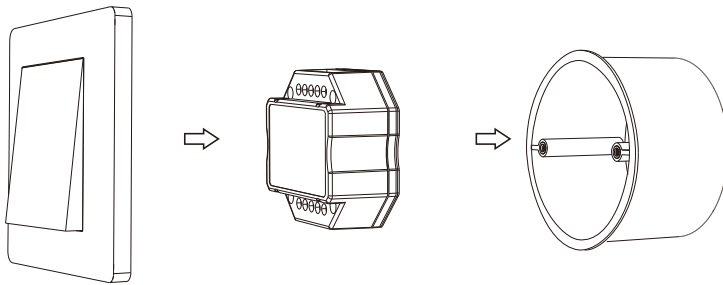
Wiring diagram

● L1 connect with 0/1-10V dimming driver (no use AC OUT)

AC110-220V

N L

Push Switch

L1
0/1-10V RF Dimmer
Uin=85-265VAC
Out=0/1-10V(20mA)
AC Out=Max1.5A
Temp Range: -30℃~+55℃

ON 0-10V
MATCH 1-10V

- +
0/1-10V OUT

2.4G
RoHS

AC OUT   AC IN   Push
L1 N1   N   L   P
0.5-2.0mm²
4-5mm

0/1-10V
Dimmable Driver

ACL
ACN

DIM+
DIM-

V+
V-

+
–

Single color LED strip
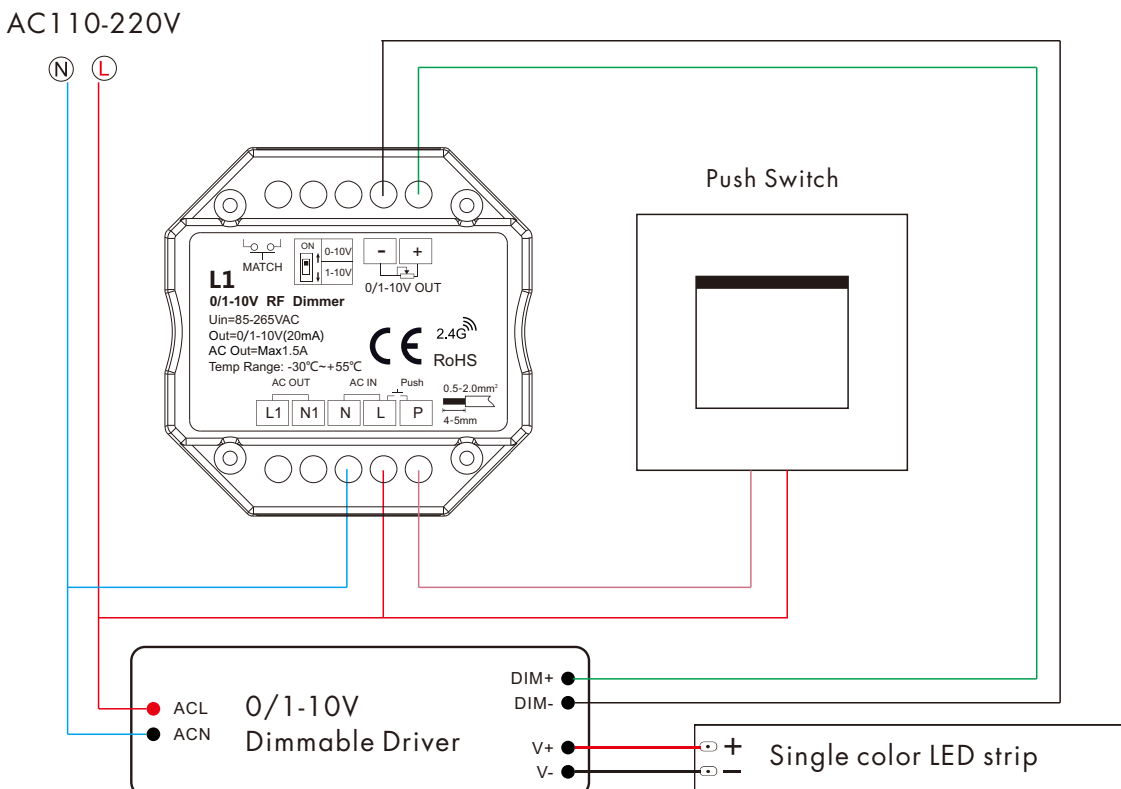
● L1 connect with 0/1-10V dimming driver (use AC OUT)

AC110-220V
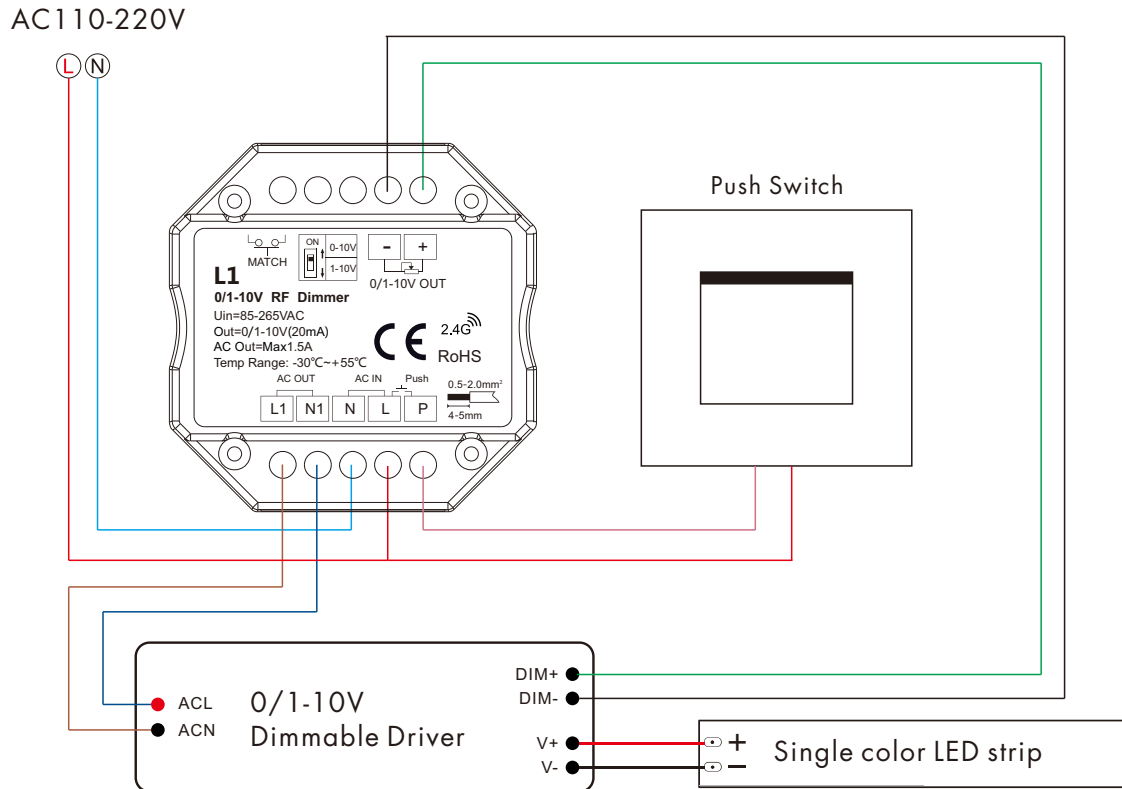
Note: We recommend the number of LED drivers connected to 0/1-10V dimmer does not exceed 5 pieces, The maximum length of the wires from dimmer to LED driver should be no more than 15 meters.

0-10V or 1-10V dimming setting

Select 0-10V dimmer or 1-10V dimmer according to dimmable LED driver.

0-10V Dimmer

1-10V Dimmer
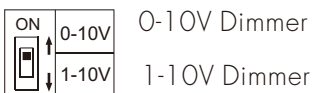
Match Remote Control (two match ways)

End user can choose the suitable match/delete ways. Two options are offered for selection:

Use the controller's Match key

Match:
Short press match key, immediately press on/off key (single zone remote) or zone key (multiple zone remote) of the remote.

Delete:
Press and hold match key for 5s to delete all match, The light blinks 5 times means all matched remotes were deleted.

Use Power Restart

Match:
Switch off the power, then switch on power again, immediately short press on/off key (single zone remote) or zone key (multiple zone remote) 3 times on the remote. The light blinks 3 times means match is successful.

Delete:
Switch off the power, then switch on power again, immediately short press on/off key (single zone remote) or zone key (multiple zone remote) 5 times on the remote. The light blinks 5 times means all matched remotes were deleted.

Application notes

1. All the receivers in the same zone.
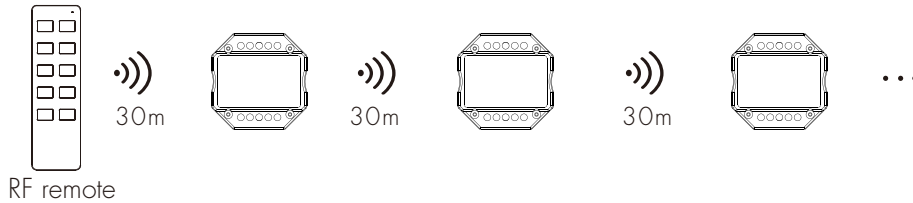
RF remote

Auto-transmitting: One receiver can transmit the signals from the remote to another receiver within 30m, as long as there is a receiver within 30m, the remote control distance can be limitless.

Auto-synchronization: Multiple receivers within 30m distance can work synchronously when they are controlled by the same remote.

Receiver placement may offer up to 30m communication distance. Metals and other metal materials will reduce the range. Strong signal sources such as WiFi routers and microwave ovens will affect the range.

We recommend for indoor applications that receiver placements should be no further apart than 15m.

2. Each receiver(one or more) in a different zone, like zone 1, 2, 3 or 4.

RF remote
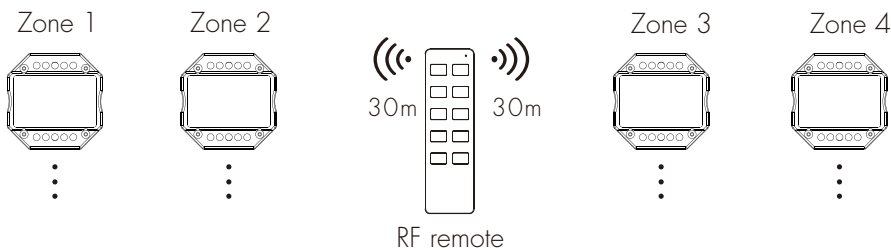
Push Dim Function

● Short press:

  Turn on or off light.

● Long press (1-6s):

  Press and hold to step-less dimming,

  With every other long press, the light level goes to the opposite direction.

● Dimming memory:

  Light returns to the previous dimming level when switched off and on again, even at power failure.

Malfunctions analysis & troubleshooting

Malfunctions	Causes	Troubleshooting
No light	1. No power. 2. Wrong connection or insecure.	1. Check the power. 2. Check the connection.
No response from the remote	1. The battery has no power. 2. Beyond controllable distance. 3. The controller did not match the remote.	1. Replace battery. 2. Reduce remote distance. 3. Re-match the remote.