

LCDMSD-V1-HP

Remote Controlled Dimming Module

Features

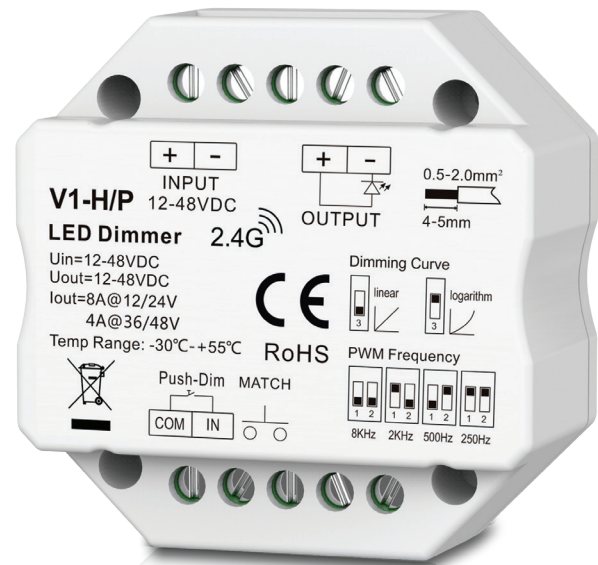
- Ability to control via remote or push dim (bell press mech)
- Controllers can wirelessly relay dimming commands allowing for unlimited dimming from one remote
- Adjustable PWM frequency dimming. High frequency (8KHz) is best selected for use with video cameras

Applications

- All dimming uses for 12-48VDC LED strips
- Lounges, kitchens, bedroom, bathrooms

Notes

- See website link for our range of remote options
- Remote batteries (not supplied)
- Remotes need to be synced to the controllers
- Controllers and remotes sold separately
- DIP switches are numbered 1, 2 & 3. 1 & 2 are for setting the PWM frequency & 3 is for setting the dimming profile (logarithmic or linear)



Input and Output

Input/output voltage	12-48VDC
Output current	8A@12/24V, 4A@36/48V
Output power	96W/192W/144W/192W (12V/24V/36V/48V)
Output type	Constant voltage

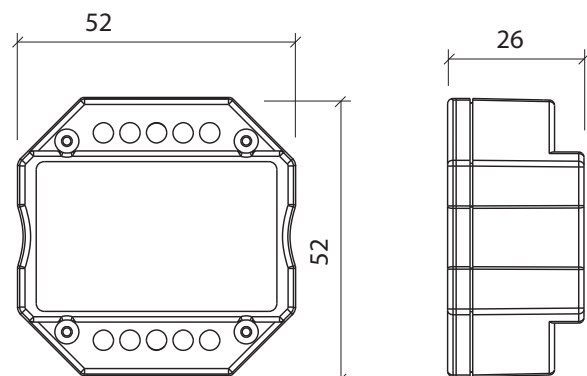
Dimming Data

Input signal	RF 2.4GHz + Push Dim
RF Control distance	30m (unobstructed)
Dimming gray scale	4096 (2 ¹²) levels
Dimming range	0-100%
Dimming curve	Logarithmic or Linear
PWM frequency	250Hz, 500Hz, 2kHz, 8kHz

Safety and EMC

EMC standard (EMC)	EN301 489, EN 62479
Safety standard (LVD)	EN 62368-1:2020+A11:2020
Radio Equipment (RED)	ETSI EN 300 328 V2.2.2
Certification	CE, EMC, LVD, RED

Dimensions



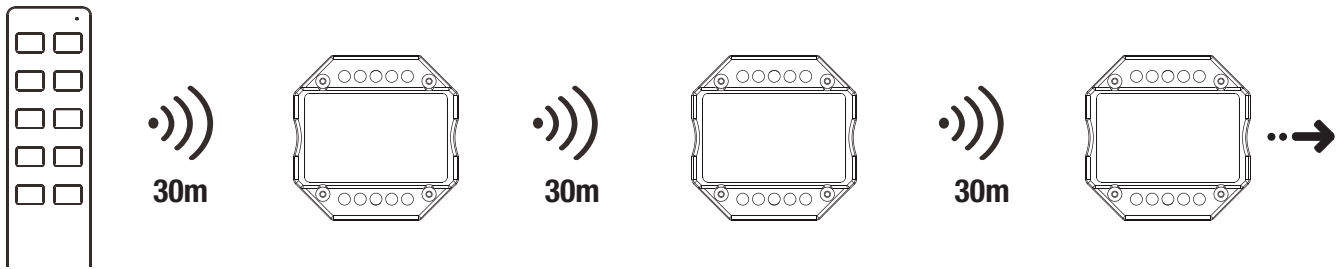
Environment

Operation temperature	Ta: -30°C ~ +55°C
Max case temperature	Tc: +85°C
IP rating	IP20

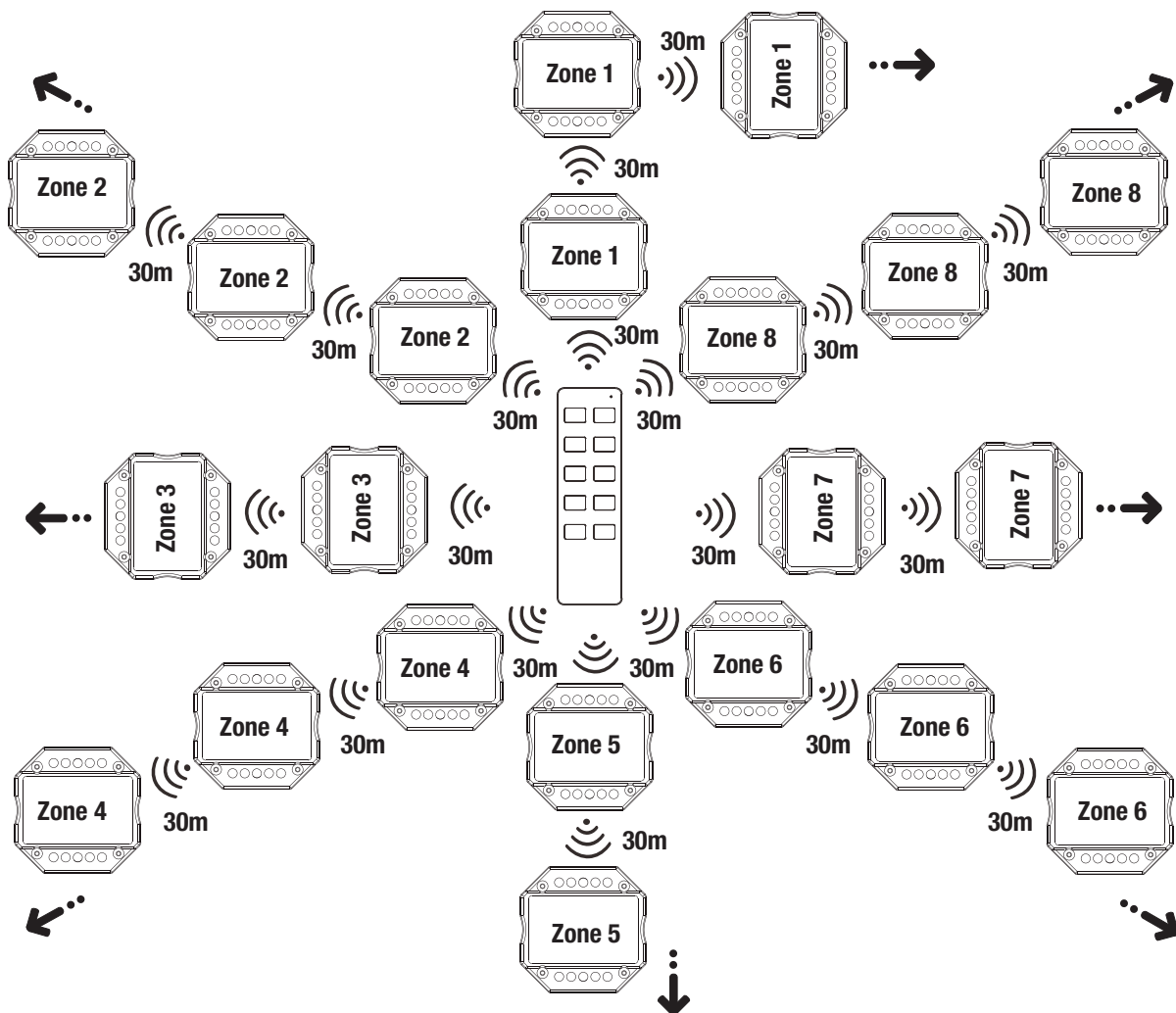
Warranty and Protection

Warranty	5 years
Protection	Reverse polarity Short circuit

Dimming Wireless Relaying - Single Zone

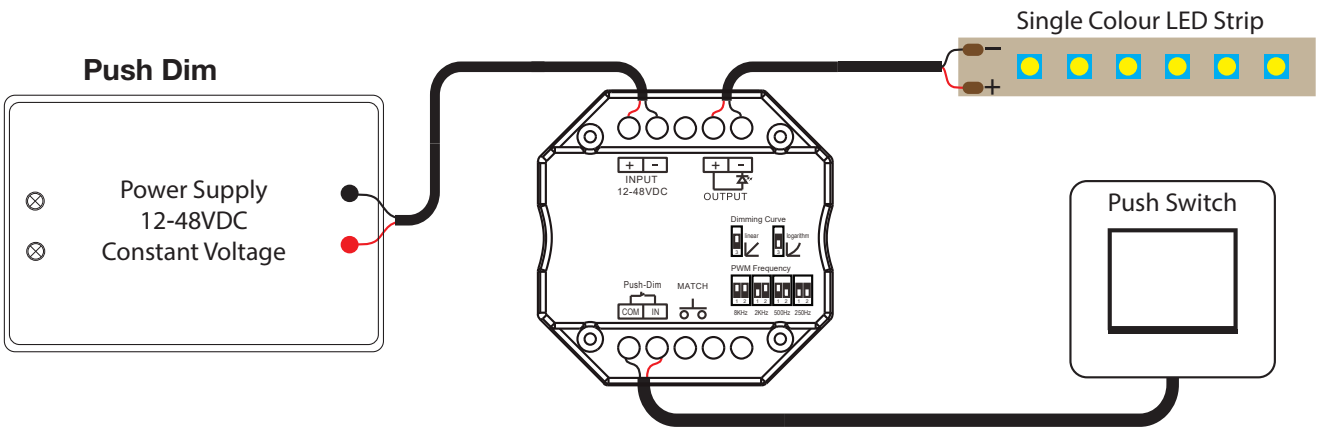
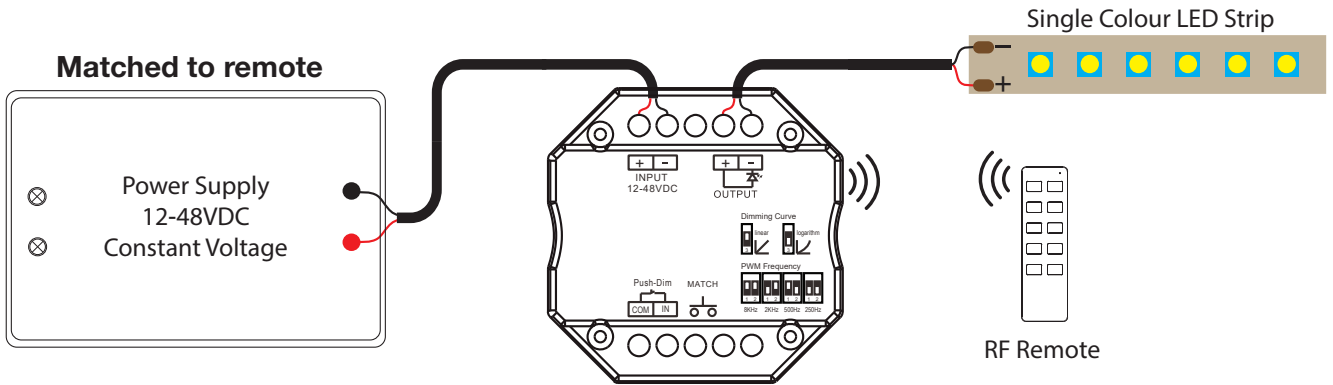


Dimming Wireless Relaying - Multiple Zones

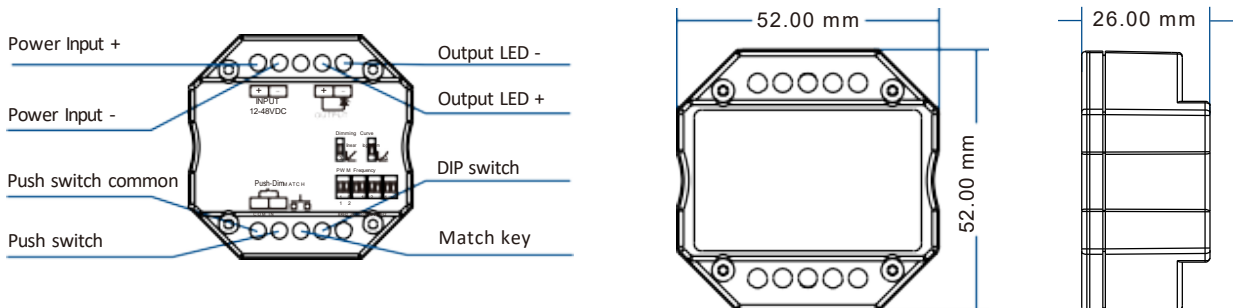


The 30m max wireless transmission distance is with unobstructed line of sight. Transmission distances may be significantly less with walls, metal or concrete in the way. Other transmission sources such as WiFi & microwaves may also reduce the transmission range. Where obstructions and interference sources exist it is recommended that testing the transmission range before finalising the project and module placement may need to be altered to achieve the desired result. Intermediately placed modules with no load can be used as a relay where transmission distances are shortened.

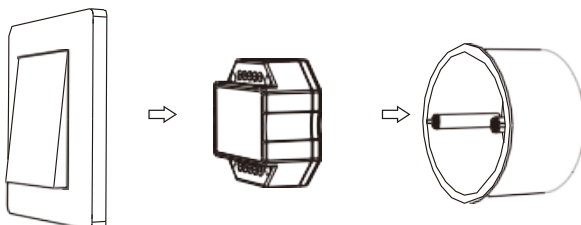
Wiring Options



Mechanical Structures & Installations



Typical Wall Junction Box Mounting



Synchronising Remote & Dim Modules

Match To Remote

Short press the match key & immediately press on/off key (single zone remote) or zone key (multi zone remote).

The LED indicator light will fast flash several times if the matching is successful.

Deleting

Press & hold the match key for 5 seconds to delete all matches.

The LED indicator light will fast flash several times if the deletion is successful.

Auto Transmission & Auto Synchronisation

As shown in the diagrams on page 2, one receiving dim module can auto transmit commands from the remote to many other down stream modules.

This provides the ability for one remote to control almost limitless distances all in sync.

For auto transmission & syncing to work each receiving module needs to be successfully matched to the remote (1 zone remote) and to each zone key (multi zone remotes).

Operating Dim Modules In Push Dim Mode & Synchronisation

Dim modules in “push dim” operation provide for a simple dimming solution using commercially available momentary mechs (bell press) type wall switches in most brands.

If using multiple modules in push dim mode and they are required to be in sync, it pays to push and hold the match key for 10 seconds to delete any previous setting that may exist.

This ensures that the modules will sync correctly.

Short pressturns the lights off/on.

Long press(1-6seconds press & hold) dims up or down.

Dimming memory lights return to last dimmed level after power is turned off & on.

Synchronisationif more than one dim module are connected to the same push switch a long press of more than 10seconds will dim all lights to 100% and all modules are now in sync.

Qty of modulesrecommended maximum of 25 modules per push switch & it is also recommended that the max cable run from the push switch does not exceed 20m.