USK1 a010114

LIGHT

Knob dimming / DMX RDM decoder / 1-10V control / RF control / Leading or trailing edge / OLED display

• AC phase-cut mosfet dimmer, one channel output, Max. 6A.

• To dim and switch single color dimmable LED lamps, traditional incandescent and halogen lights.

- 256 levels 0-100% dimming smoothly without any flash.
- Five dimming mode: Knob, DMX512, 1-10V, RF 2.4GHz, AC Push-Dim.
- Rotate knob to change brightness, support push, push twice and long push operation.
- DMX512 decoder with RDM function.
- Compatible with active or passive 0-10V, 1-10V dimmer.
- Stand-alone dynamic change mode, speed and brightness adjustable.
- Compatibility with RF 2.4G single zone or multiple zone dimming remote control, 15m remote distance.
- Trailing edge dimming or Leading edge dimming selectable.
- Connect with external AC push switch to achieve on/off and dimming function.
- Minimum brightness set from 5% to 40%.
- AC output current and temperature detection.
- Over-heat / Over-load protection, recover automatically.



C€ RoHS emc LVD RED

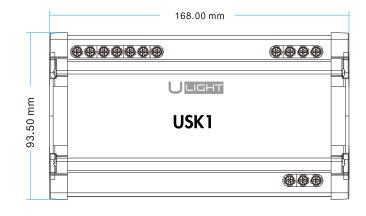
Technical Parameters

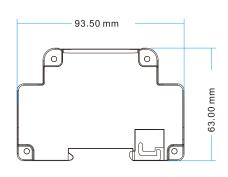
Input and Output		Dimming data		Safety and EMC	
Input voltage	100-240VAC	Input signal	Knob/DMX512/1-10V/RF/Push-Dim	FAAC at a dead (FAAC)	ETSI EN 301 489-1 V2.2.3
Output voltage	100-240VAC	Dimming level 256 levels EMC standard (EMC)		ETSI EN 301 489-17 V3.2.4	
Output current	1CH, 6A	Dimming range 0-100%		Safety standard(LVD)	EN 62368-1:2020+A11:2020
Output power	600-1440W			Radio Equipment(RED)	ETSI EN 300 328 V2.2.2
Warranty and Protection		Environment		Certification	CE,EMC,LVD,RED
Warranty	5 years	Operation temperature	Ta: -30°C ~ +55°C	Package	
Protection	Over-heat, Over-load protection, recover automatically.	Case temperature (Ma	x.) Tc: +85°C	Size	L170 x W98 x H80mm
		IP rating	IP20	Gross weight	0.58kg

Compatible Load Types

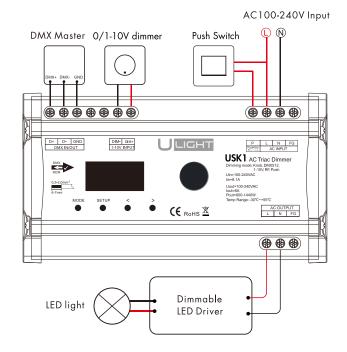
Load Type	Maximum Load	Remarks
Dimmable LED lamps	1000W @ 220V 500W @ 110V	Due to variety of LED lamp designs, maximum number of LED lamps is further dependent on power factor result when connected to dimmer.
Triac Dimmable LED drivers	1000VV @ 220V 500VV @ 110V	Maximum permitted number of drivers is 1000W divided by driver nameplate power rating, and make sure the surge current is no more than 2 times 65A.
Incandescent lighting, HV Halogen lamps	1500W @ 220V 750W @ 110V	

Mechanical Structures and Installations









Note:

- 1. When calculating the maximum number of load lamps or drivers, the input power or input current parameters of a single lamp or driver must be used, the output power parameters can not be used. In addition, the maximum surge current of the dimmer is 65A, the sum of surge current of multiple dimmable LED drivers should not exceed 2 times. otherwise, the product will be overloaded and damaged.
- An DMX signal amplifier is needed when more than 32 decoders are connected, or use overlong signal line, signal amplification should not be more than 5 times continuously.
- 3. If the recoil effect occurs because of longer signal line or bad line quality, please try to connect 0.25W 90-120 Ω terminal resistor at the end of each DMX signal line.
- 4. 1-10V dimming compliant with 0-10V, 1-10V, 10V PVVM, RX (4 in 1).

AC 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.

• Synchronization:

If more than one controller are connected to the same push switch, do a long press for more than 10s,

then the system is synchronized and all lights in the group dim up to 100%.

This means there is no need for any additional synchrony wire in larger installations.

We recommend the number of controllers connected to a push switch does not exceed 25 pieces,

The maximum length of the wires from push to controller should be no more than 20 meters.

Operation

Short press MODE key, switch between Manual dimmer mode, DMX decoder mode, 1-10V dimmer mode and dynamic light change mode.

Short press SETUP key, enter parameter setting state, and switch between multiple parameter item.

press < or > key for parameter adjustment.

long press SETUP key or wait $30\mathrm{s}$ to quit parameter setting state.

Long press MODE & > key for 2s or longer, enter RF remote match or delete state.

Long press < & > key for 2s, restore factory default parameter.

The 4 key operation have the same function as the knob.

System parameter setting



Work mode:

Knob Manual dimmerDMX DMX512 decoder

1-10V 1-10V dimmer

Auto Dynamic light change mode

Phase-cut mode:

Lead Leading edge dimmer
Trail Trailing edge dimmer

Min output brightness:

Range: 5~40%

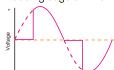
Double click or long press 2s the knob, enter parameter setting state.

Short press the knob to switch between work mode, phase-cut, minimum brightness setting and exit item.

Rotate the knob for parameter value adjustment of each item.

Select leading edge dimmer or trailing edge dimmer according to dimmable LED light or driver. Set suitable minimum brightness to avoid flick.

Leading-edge dimmer



Trailing-edge dimmer



Manual dimmer mode



light switch:

ON light is on light is off

Output brightness: Range: 5~100%

DMX decoder mode

DMX Decoder Addr:001 Data:255 Brightness: 100% Tc:50C

DMX decode start address:

Range: 001~512

DMX decode data: Range: 000~255 Output brightness: Range: 0~100%

1-10V dimmer mode



0/1-10V dimming input:

Range: 0.0V~10.0V **Output brightness:** Range: 0~100% Short press the knob to turn on or turn off the light. Rotate the knob for brightness adjustment.

Short press the knob to enter or quit DMX start address setting state. Rotate the knob for DMX start address adjustment.

Dynamic light change mode



Dynamic light change mode no:

1 Fade 2 Jump 3 Flash

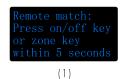
Mode speed: Range: 1-8 level Mode brightness: Range: 10~100%

RF dimmer mode



Short press the knob to enter dynamic light change mode setting state, or change between mode no, speed and brightness item.
Rotate the knob for value adjustment of each item.

Match: Long press the knob for 10s, OLED display (1), within 5s, press on/off key or zone key of the remote, display (2), match is successful, Delete: Long press the knob for 15s, until OLED display (3), delete all matched RF remote.







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