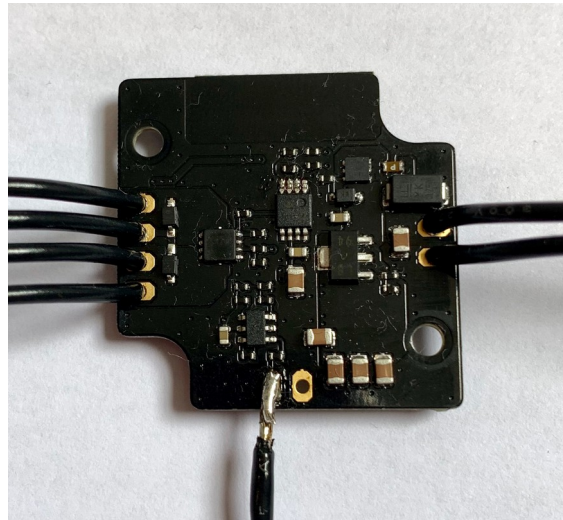


12V / 24V DIMMERS

Last update: 30/04/2020

SDWT01x



The SDWT01x dimmer represents an ideal solution for 12V and 24V LED strips. Featuring our proprietary wireless technology and/or touch detection, it is designed to be installed inside a lamp between power supply and LED strips. In addition, the dimmer can eventually be integrated with a customer's electronic system.

Dimming level change is triggered by touch detection and/or remote wireless command to independently control two output channels. Available with pre-developed firmware options, dimming levels and behaviour can also be customised upon request.

Our proprietary wireless technology allows dimming of multiple lamps from any of them. A typical application consists in multiple lamps equipped with our wireless enabled dimmer communicate to each other without an additional external device or prior installation. One lamp is dimmed and all the others instantly follow.

Dimming is implemented through PWM on low side of LED strips rating 1A of maximum current.

The dimmer is compatible with our range of wireless controllers.

Firmware options (Touch input)

a) **STANDARD**

The two output channels are controlled together. Duty cycle is increased at each touch and then turned OFF on both outputs. Applied PWM duty cycle are 0% (OFF), 10% (LOW), 40% (MID) and 100% (HIGH).

Touch #	Output 1	Output 2
Touch #1	LOW	LOW
Touch #2	MID	MID
Touch #3	HIGH	HIGH
Touch #4	OFF	OFF

Sequence, number of steps and dimming levels can be customised upon request.

b) **DOUBLE**

The two output channels are independently controlled. Outputs are turned ON and OFF in sequence at each touch. Applied PWM duty cycle are 0% (OFF) and 100% (ON).

Touch #	Output 1	Output 2
Touch #1	ON	OFF
Touch #2	OFF	ON
Touch #3	ON	ON
Touch #4	OFF	OFF

Sequence, number of steps and dimming levels can be customised upon request.

c) **DIM TO WARM**

The two output channels are independently controlled to create a warmer effect if two LED strips with different colour temperature are used. Applied PWM duty cycle are 0% (OFF), 10% (LOW), 40% (MID) and 100% (HIGH).

Touch #	Output 1 (Neutral white)	Output 2 (Warm white)
Touch #1	HIGH	OFF
Touch #2	MID	LOW

Touch #3	LOW	MID
Touch #4	OFF	MID
Touch #5	OFF	OFF

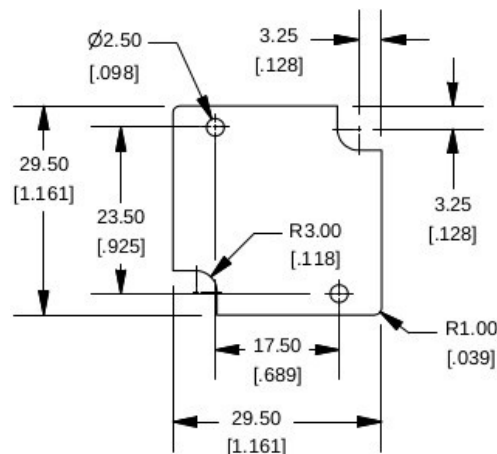
Sequence, number of steps and dimming levels can be customised upon request.

Main features

- Based on a SoC with radio-microcontroller and built-in antenna;
- Implementation of a 2.4GHz wide spectrum proprietary protocol;
- Capacitive touch input on single core wire (length and connection type specified on order);
- PWM output, 2 channels rated 1A each;
- Firmware is fully customizable.

Mechanical and temperature characteristics

- Board dimensions: 29.5mm x 29.5mm x 3mm;
- Terminals length: 150mm;
- Two holes for screw connection;
- Temperature range: -40 to 85°C.



Certifications

- RoHS compliant;
- CE certified;
- SoC fully FCC certified;
- SoC fully IC certified;
- SoC fully IMOC certified;
- SoC fully TELEC certified.