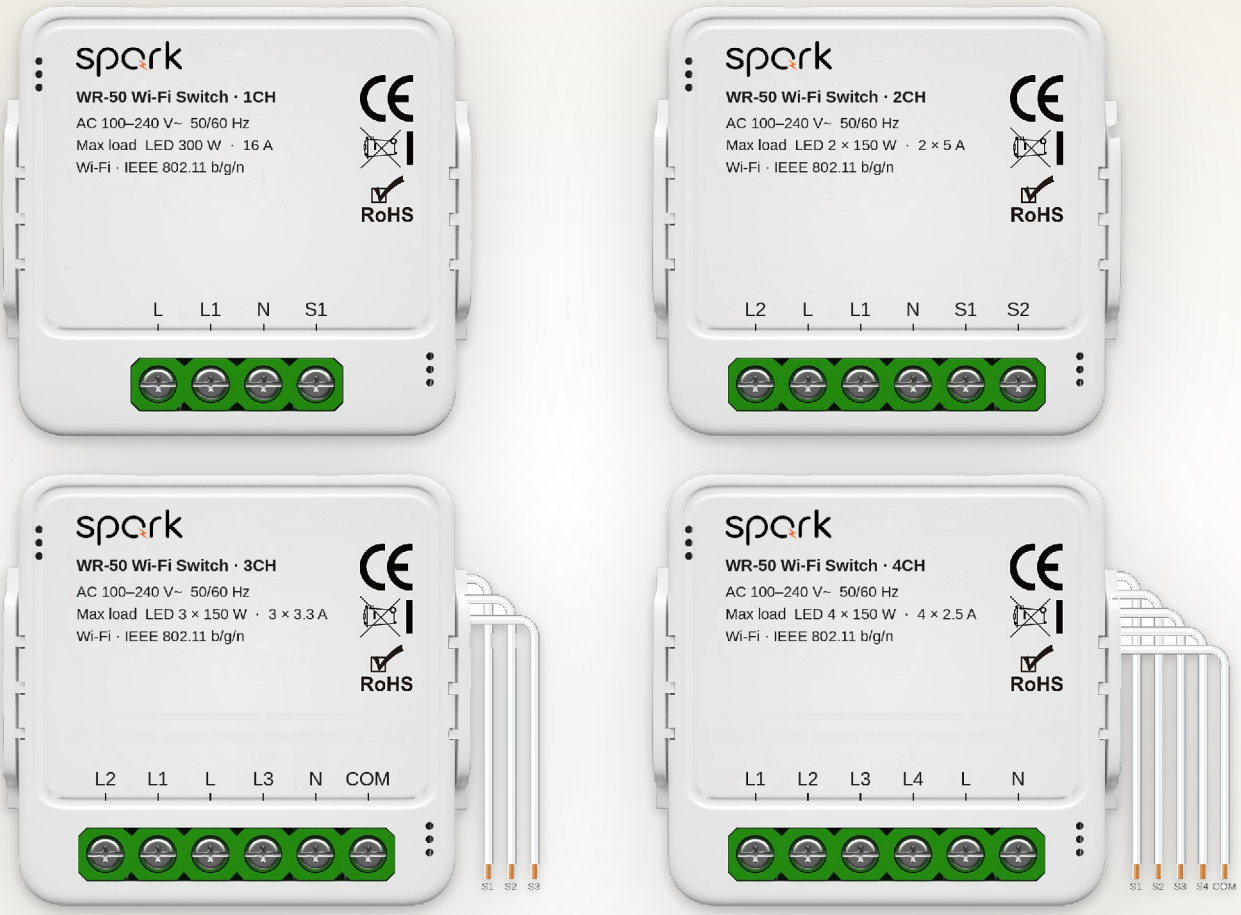


SHOWN: SPARK WR-50 · 1CH · 2CH · 3CH · 4CH

39.2 × 39.2 × 18 MM

SPARK WR-50 · WI-FI SWITCH MODULE · 1 TO 4 CHANNELS

Keep your switches. Make every light smart.

The Spark WR-50 is a tiny Wi-Fi switch module that fits in the wall box behind the switches you already have. Turn lights on and off from the app, by voice, on a schedule, or from the wall. Four versions control one, two, three or four light circuits.

- Wi-Fi
- 1 · 2 · 3 · 4 channels
- 39.2 × 39.2 × 18 mm
- AC 100–240 V~
- Timer schedules
- Behind your switch

HOW IT FITS

Hidden in the wall. Your switch stays.

The WR-50 sits in the wall box behind a normal light switch. Nothing new on the wall, and nothing new to learn: the switches you know now run your smart home.

1 **Power off**

Switch off the circuit at the breaker.

2 **Wire the WR-50**

Connect L, N, the lights and the switches to the module in the wall box.

3 **Refit your switch**

Put the switch plate back. The module is out of sight.

4 **Connect to Wi-Fi**

Add it in the app over your home 2.4 GHz Wi-Fi.

NEUTRAL

Needs L and N

The module has a neutral (N) terminal. A neutral wire is needed in the box.

YOUR SWITCH

One or two switches

Wire one switch per light, two switches for two-way, or none at all.

SAFETY

Qualified electrician

Installation should be done by a qualified electrician with the power off.

FOUR WAYS TO CONTROL

On, off, or on a schedule.

Use the wall switch like always, or let the app, your voice and timers do it for you.

Wall switch

Your existing switches keep working.

App

Switch every light from your phone.

Voice

Works with Alexa and Google Home.

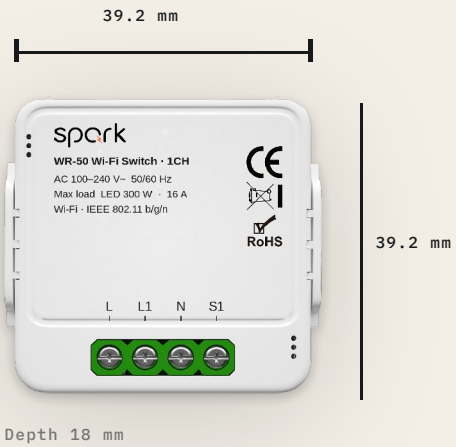
Timer

Schedules turn lights on and off automatically.

SHOWN AT ACTUAL SIZE

Small enough for almost any wall box.

The body measures 39.2 × 39.2 × 18 mm, so it fits behind the switch in many types of mounting box.



RANGE
< 100 m

WORKING TEMPERATURE
–10 to +40 °C

PROTECTION
IP20 · indoor

CHOOSE YOUR VERSION

One module for one to four lights.

1 CHANNEL

WR-50 · 1CH

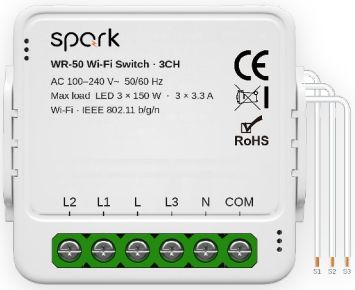
One light circuit

2 CHANNELS

WR-50 · 2CH

Two light circuits

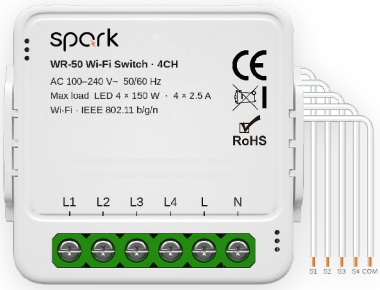
3 CHANNELS



WR-50 · 3CH

Three light circuits

4 CHANNELS



WR-50 · 4CH

Four light circuits

	1CH	2CH	3CH	4CH
Light circuits	1	2	3	4
Max load (LED)	300 W	2 × 150 W	3 × 150 W	4 × 150 W
Max current	16 A	2 × 5 A	3 × 3.3 A	4 × 2.5 A
Switch inputs	S1 terminal	S1, S2 terminals	S1–S3 wires + COM terminal	S1–S4 + COM wires
Screw terminals	L · L1 · N · S1	L2 · L · L1 · N · S1 · S2	L2 · L1 · L · L3 · N · COM	L1 · L2 · L3 · L4 · L · N

TIP

Match the module to the switch: a 3-gang switch with three lights takes the 3CH.

1–4

WIRING

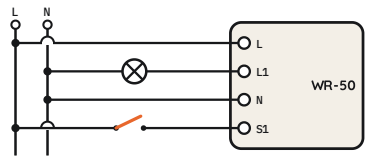
Three ways to wire it.

One switch per light, two switches for two-way control, or no switch at all.

WR-50 · 1CH L · L1 · N · S1

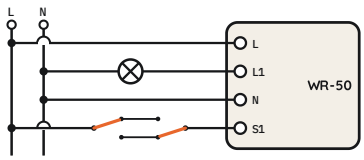
One switch per light

From L to each S terminal.



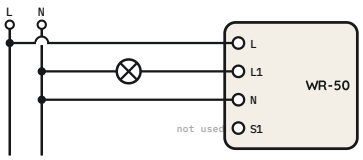
Two switches per light

Two-way switches on each S.



No switch

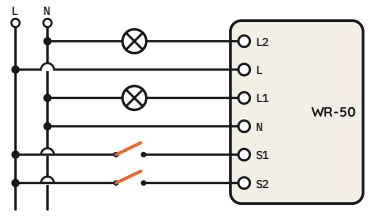
App, voice and timer only.



WR-50 · 2CH L2 · L · L1 · N · S1 · S2

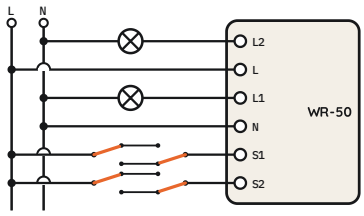
One switch per light

From L to each S terminal.



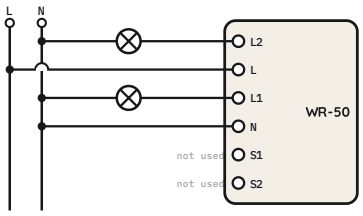
Two switches per light

Two-way switches on each S.



No switch

App, voice and timer only.



Light · Wall switch · Flying lead (3CH, 4CH) · Power off before wiring · installation by a qualified electrician

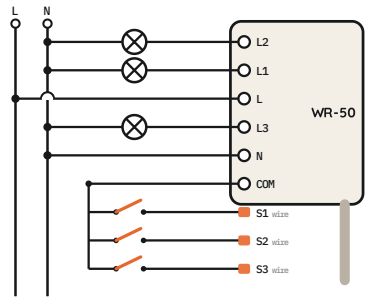
WIRING · 3CH AND 4CH

The 3CH has a COM screw terminal and flying leads S1 to S3 for the switches. The 4CH has flying leads S1 to S4 and COM.

WR-50 · 3CH L2 · L1 · L · L3 · N · COM + S1–S3

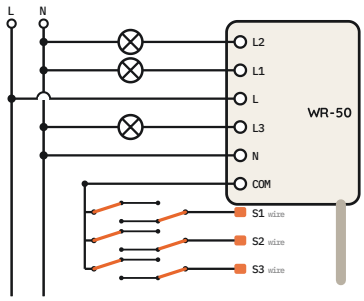
One switch per light

Switches between COM and S wires.



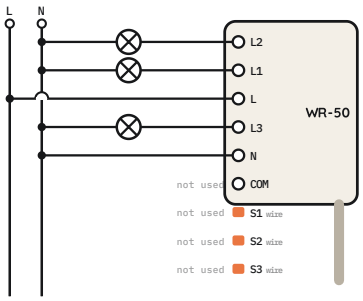
Two switches per light

Two-way switches on each S wire.



No switch

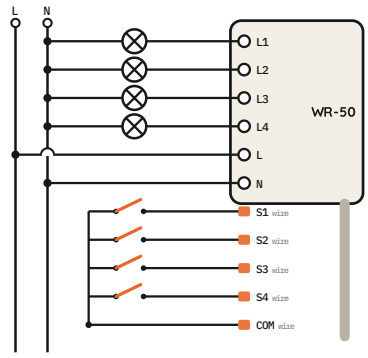
App, voice and timer only.



WR-50 · 4CH L1 · L2 · L3 · L4 · L · N + S1–S4, COM

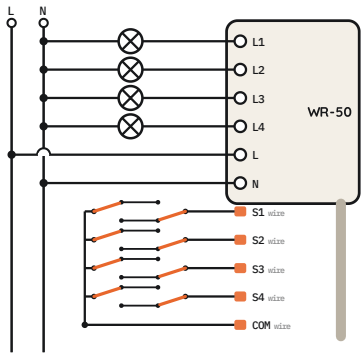
One switch per light

Switches between COM and S wires.



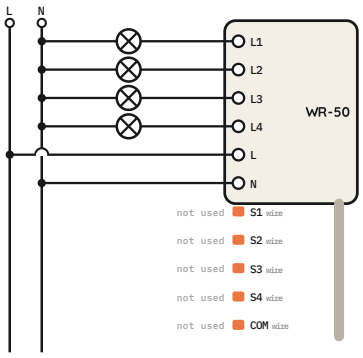
Two switches per light

Two-way switches on each S wire.



No switch

App, voice and timer only.



Light · Wall switch · Flying lead (3CH, 4CH) · Power off before wiring · installation by a qualified electrician

WHY IT WORKS

Small module. Every light, smart.

Wi-Fi

Connects to your home 2.4 GHz Wi-Fi network.

39.2 × 39.2 × 18 mm

Fits in the wall box behind your switch.

1 to 4 channels

One module for up to four light circuits.

Timer schedules

Lights turn on and off on their own.

SPECIFICATIONS

Model	**Spark WR-50**
Product	**Wi-Fi switch module**
Versions	**1CH · 2CH · 3CH · 4CH**
Voltage	**AC 100–240 V~, 50/60 Hz**
Max load 1CH	**LED 300 W · 16 A**
Max load 2CH	**LED 2 × 150 W · 2 × 5 A**
Max load 3CH	**LED 3 × 150 W · 3 × 3.3 A**
Max load 4CH	**LED 4 × 150 W · 4 × 2.5 A**
Protocol	**Wi-Fi · IEEE 802.11 b/g/n**
Frequency	**2.412–2.484 GHz**
Range	**< 100 m**
Working temperature	**–10 °C to +40 °C**
Dimensions	**39.2 × 39.2 × 18 mm**
IP rating	**IP20**
Neutral	**Required**
Certificates	**CE · RoHS**

PART OF THE SPARK HOME

Smart lights, without changing a single switch.

spark

SPARK-HOME.COM