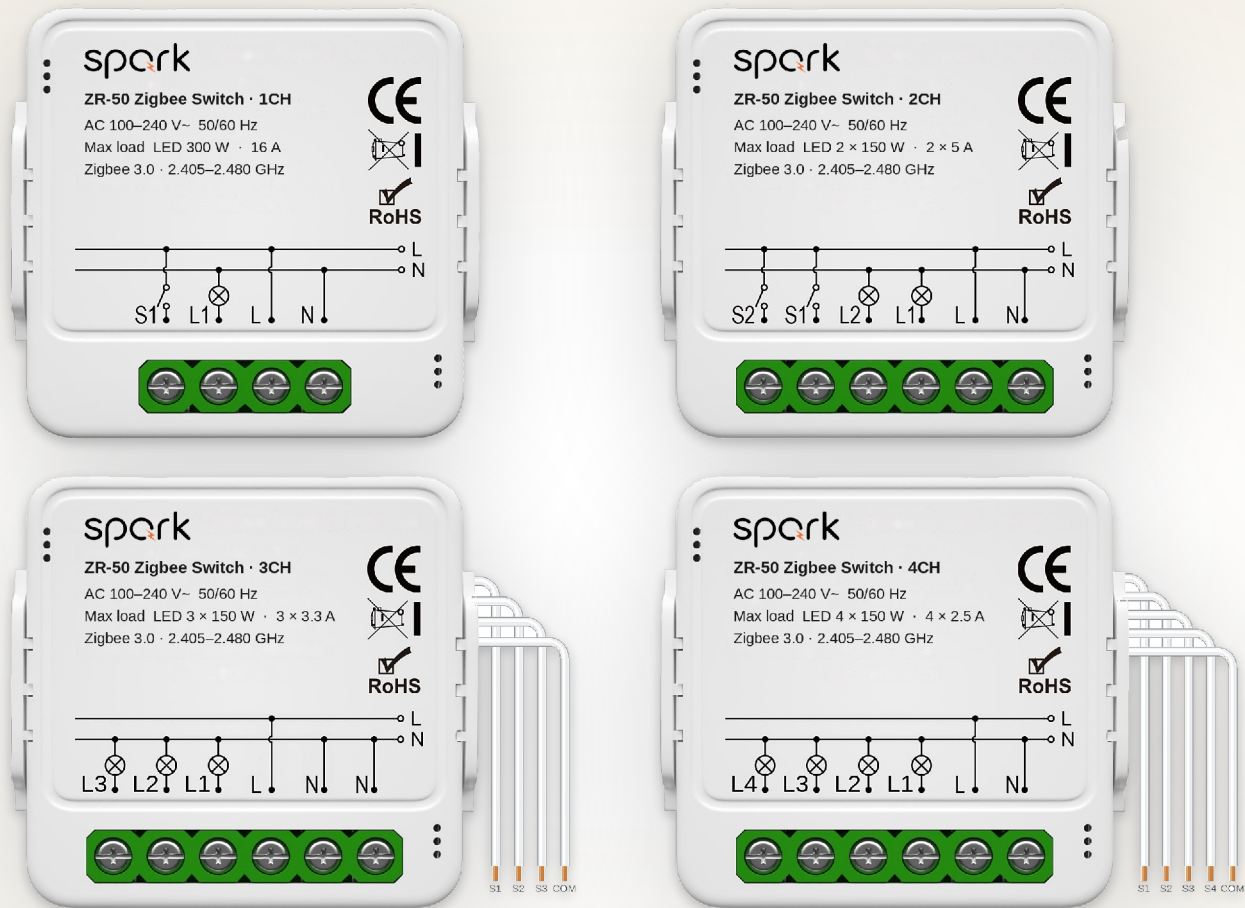




SHOWN: SPARK ZR-50 · 1CH · 2CH · 3CH · 4CH

39.2 × 39.2 × 18 MM

● SPARK ZR-50 · ZIGBEE SWITCH MODULE · 1 TO 4 CHANNELS

Keep your switches. Make every light smart.

The Spark ZR-50 is a tiny Zigbee 3.0 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.

● Zigbee 3.0

● 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 ZR-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 ZR-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

Pair with Zigbee

Add it to your Zigbee 3.0 smart home through a Zigbee hub.

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

Alexa and Google Home, through a Zigbee hub.



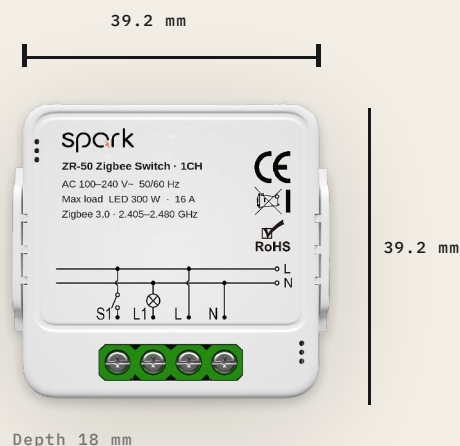
Timer

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

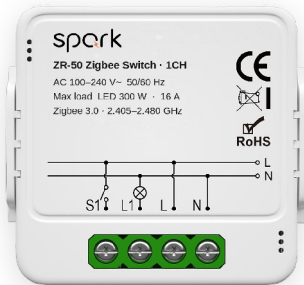
PROTECTION

IP20 · indoor

CHOOSE YOUR VERSION

One module for one to four lights.

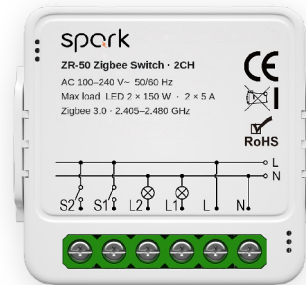
1 CHANNEL



ZR-50 · 1CH

One light circuit

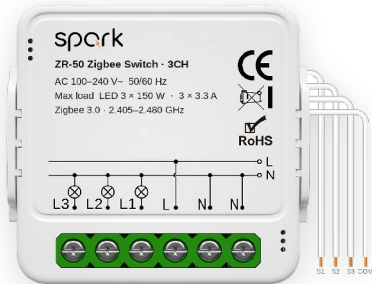
2 CHANNELS



ZR-50 · 2CH

Two light circuits

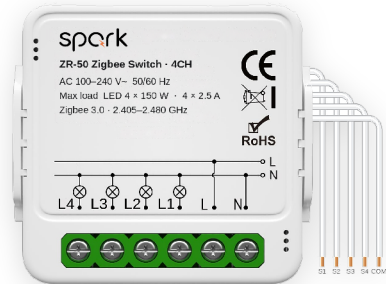
3 CHANNELS



ZR-50 · 3CH

Three light circuits

4 CHANNELS



ZR-50 · 4CH

Four light circuits

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

TIP

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

1-4

● WIRING

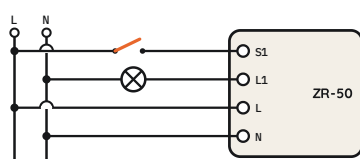
Three ways to wire it.

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

ZR-50 · 1CH S1 · L1 · L · N

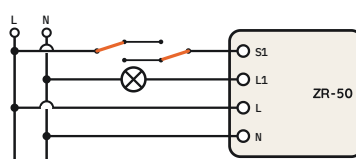
One switch per light

From L to each S terminal.



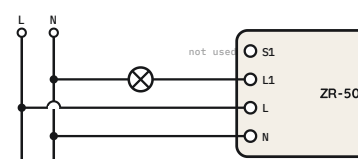
Two switches per light

Two-way switches on each S.



No switch

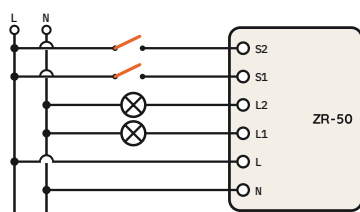
App, voice and timer only.



ZR-50 · 2CH S2 · S1 · L2 · L1 · L · N

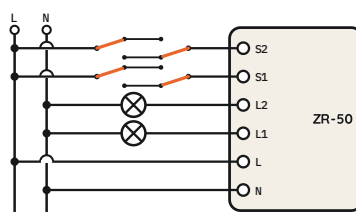
One switch per light

From L to each S terminal.



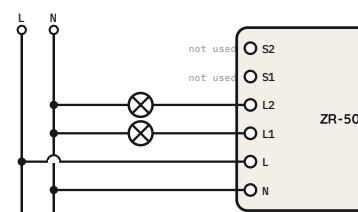
Two switches per light

Two-way switches on each S.



No switch

App, voice and timer only.



WIRING • 3CH AND 4CH

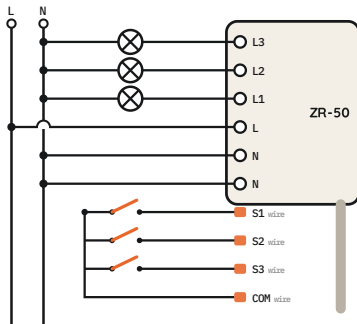
The 3CH and 4CH have screw terminals for the lights, L and N, plus flying leads for the switches: S1 to S3 or S4, and COM.

ZR-50 • 3CH

L3 • L2 • L1 • L • N • N + S1-S3, COM

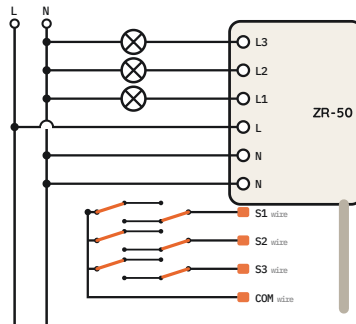
One switch per light

Switches between COM and S wires.



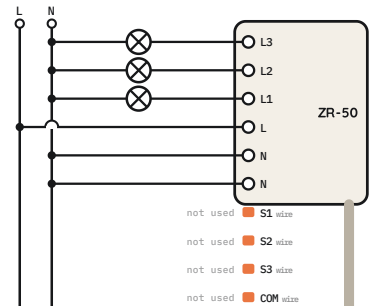
Two switches per light

Two-way switches on each S wire.



No switch

App, voice and timer only.

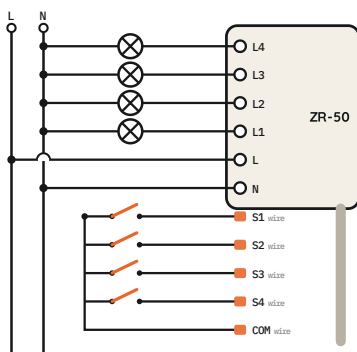


ZR-50 • 4CH

L4 • L3 • L2 • L1 • L • N + S1-S4, COM

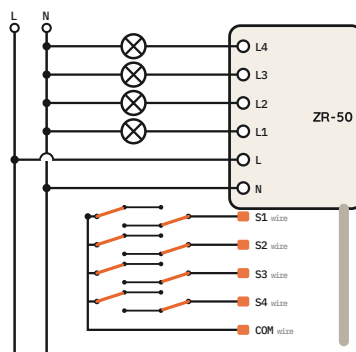
One switch per light

Switches between COM and S wires.



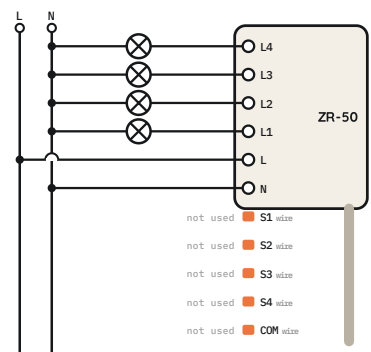
Two switches per light

Two-way switches on each S wire.



No switch

App, voice and timer only.



WHY IT WORKS

Small module. Every light, smart.



Zigbee 3.0

Joins your Zigbee smart home through a Zigbee hub.



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

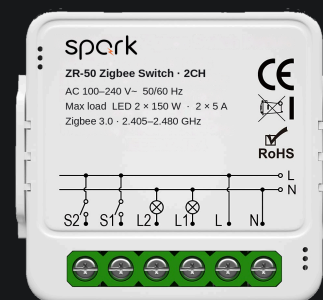
Lights turn on and off on their own.

SPECIFICATIONS

Model	Spark ZR-50
Product	Zigbee 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	Zigbee 3.0
Frequency	2.405–2.480 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