



## Wireless Switch Module Kit SMK

### Rating:

**Controller:** 220 - 240VAC, 50 Hz

**Switch:** 2x 1.5V AAAA

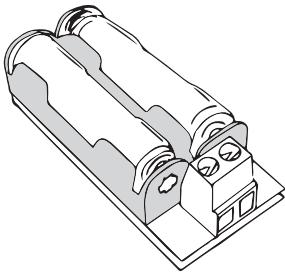
### Switch Module:

2x AAAA battery

30m+ range (2.4 GHz)

### Controller (receiver):

500W Incandescent/  
LED/CFL/Fluorescent/  
Halogen



## INSTALLATION INSTRUCTIONS

### INTRODUCTION

GEM's Wireless Switch Module Kit is designed to streamline the installation of light switches in an existing or new home. The kit features wireless modules that adapt to conventional switch mechanisms eliminating the need to run extra wiring.

### FEATURES

#### Switch Module

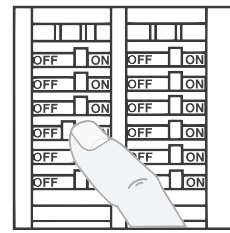
- Easy to install
- No wiring to switch needed
- Long battery life

#### Controller

- Simple installation in wall or ceiling cavity
- Receives from multiple switches
- Power supply noise immunity

**STEP 1** WARNING: TO AVOID FIRE SHOCK OR DEATH; TURN OFF POWER at circuit breaker.

Test that power is off before wiring!



### STEP 2 Identify your wiring application:

There are two different wiring schematics included:

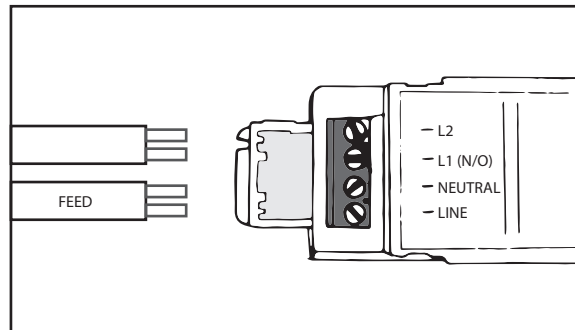
Single throw mode (SPST): where no physical switches exist. The controller (receiver) is the only device to operate the lighting circuit. Only the L1 (Normally Open) terminal is used.

Double throw mode (SPDT): where a physical switch or switches exist. The controller (receiver) is wired in a 2-way circuit with the existing switches using both of the L1 (N/O) & L2 output terminals.

### STEP 3 Wiring Controller:

Connect the wires per the attached wiring schematic, terminal description below:

- LINE - power feed active conductor.
- NEUTRAL - common neutral terminal.
- L1 (N/O) - output terminal normally open.
- L2 - output terminal normally closed.



The connected lights should be wired in parallel with connection to the mains via the controller. Ensure the controller's maximum rating for a string of lights is not exceeded (500W ON/OFF).

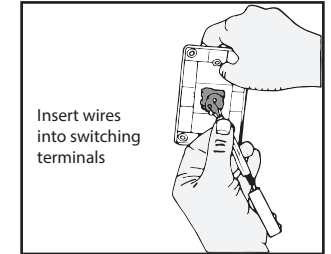
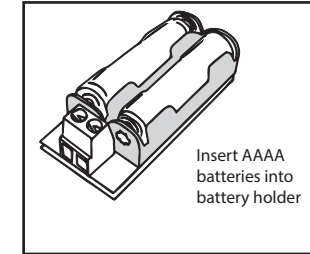
### STEP 4 Check for loose wires and shorts:

The controller installation is complete.

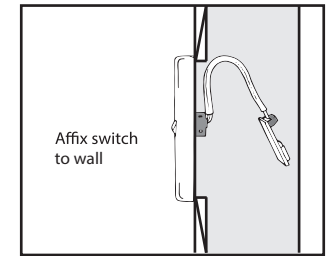
### STEP 5 Switch Module Installation:

The Switch Module communicates over radio frequency to the controller when the state of the mechanism is changed.

Insert batteries into the battery holder in the correct orientation or if batteries are already installed, remove the pull tab. Use only 1.5v AAAA type batteries.



Connect switch module to switching terminals on the switch mechanism using a small wire.



Affix the switch to the wall with the module inside the cavity.

**DO NOT USE SWITCH MODULE WHERE MAINS VOLTAGE EXISTS. SWITCH MODULE OPERATES ON BATTERY POWER ONLY.**

### STEP 6 Restore Power:

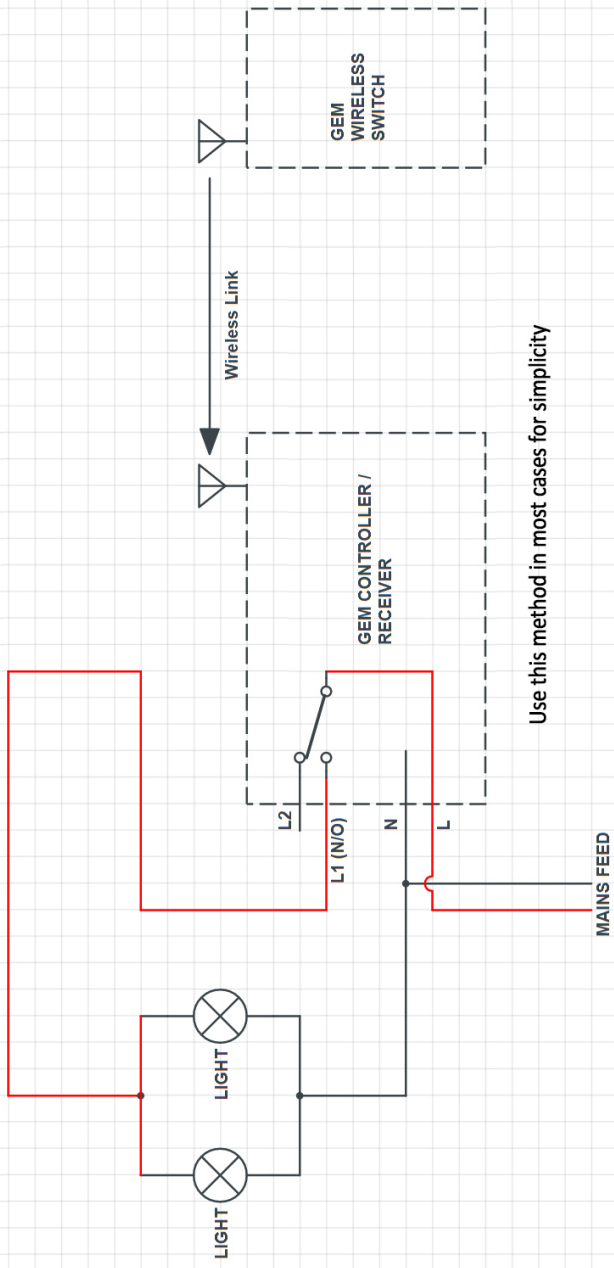
Restore power at circuit breaker. Test switch operation by flicking switch. Installation is complete.

### TROUBLESHOOTING

#### Lights do not turn on; check:

- Circuit breaker has not tripped.
- Ensure wiring is correct (turn off power before checking).
- Check battery orientation and correct if necessary.
- Check battery voltage with multimeter.
- Ensure switch is within wireless range of the controller.
- Ensure that the switch serial ID matches the controller ID.

# SPST Wiring



# SPDT Wiring

