

# KAMWMT01DY5MR1 User Manual

This device is a micro wave sensor module. It is powered by DC 5V. There are eight parts of the circuit: the antenna, transmitting circuit, receiving circuit, oscillating circuit, light detection circuit, signal amplification, signal analysis and control. The transmitting circuit transmits electromagnetic waves all the time. When the electromagnetic wave encounters a moving object, it will reflect back an electromagnetic wave. The reflected electromagnetic wave is received by the receiving circuit. After amplification by the signal amplifying circuit, it will be output to the signal analysis and control circuit. If the moving object is judged, the output will change from high level to low level.

Functions of all pins :

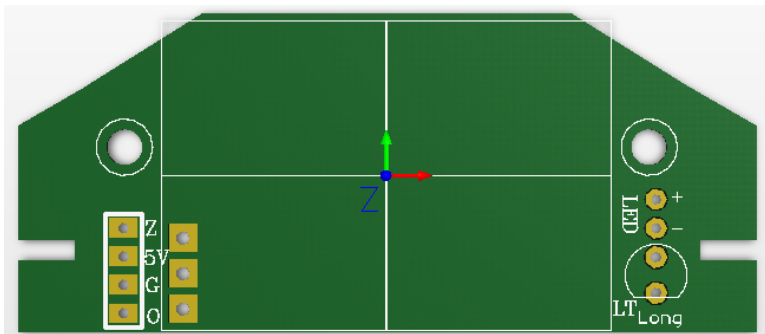
Z : Phase detector Pin;

5V : Power supply Pin;

G : GND Pin;

O : 5V output Pin, no detection 5V (high-level), detected 0V (low-level).

Function:



Power on, O pin after a low-level lasts for 1 minute, it becomes high-level. If the environment illumination is below  $15 \pm 3$  Lux and there is something moving in its detection range, then the O pin becomes low-level for 5 minutes. During this 5 minutes, if the module detects a motion, it also lasts 5 minutes else the O pin turns to high level after 5 minutes.

During power on status, if we give the Z pin a low-level between 330ms to 2 seconds, then the O pin switches from low-level to high-level to low-level and then keeps low-level until the module power off.

Installation and operation instructions :

The module is fixed by two screws. When the module connects to a power supplier correctly, it works.

Example:



## FCC Statement

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

## FCC Label Instructions

The outside of final products that contains this module device must display a label referring to the enclosed module. This exterior label can use wording such as: "Contains Transmitter Module FCC ID:2AR2NKAMWMT01DY5MR1" or "Contains FCC ID:2AR2NKAMWMT01DY5MR1" Any similar wording that expresses the same meaning may be used.