RK400-02 Rain & Snow Sensor

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RK400-02 Snow & Rain Sensor is a high sensitive detector to achieve qualitative detection of rain and snow. There is a ring conductor sense rain board on the surface. It is auto-heated. When it rains or snows, it will output switch signal.

FEATURES

- High sensitivity
- Strong anti-interference ability
- High protection class
- Easy installation

SPECIFICATIONS

Item	Specifications
Supply Voltage	Mark on the label
Heating power(optional)	10W
Output①	Relay(NO/NC),0-5V，4-20mA，RS485
Load Capacity(relay)	AC220V/1A ,DC24V/1A
Ingress protection	IP67
Operating Temperature	-30℃-+70℃
Weight(unpacked)	150g
Dimension	89*64*38mm
Shell material	ABS
Storage Condition	10℃-60℃@20%-90%RH

①   Relay(NO):If no rain or snow, the relay is open,if rain or snow, the relay is close;

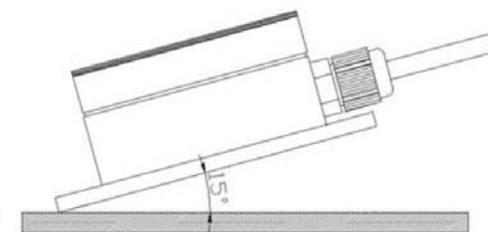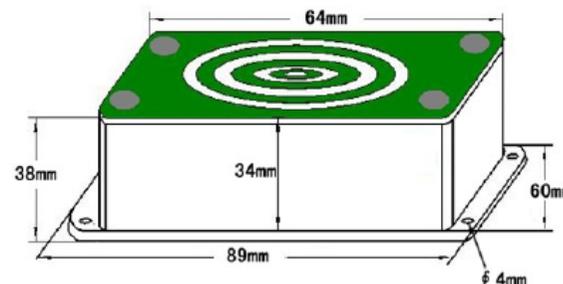   Relay(NC):If no rain or snow, the relay is close,if rain or snow, the relay is open;

MOUNTING

The angle between sensor and horizontal level should be about 15°.

ELECTRICAL CONNECTIONS

Connector（cable）	RS485	Relay(NO/NC)
Red (Pin1)	V+	V+
Black (Pin2)	V-	V-
Yellow	RS485A	
Green	RS485B	
Brown (Pin4)		R1
White (Pin5)		R2

Note: This product has been tested and complies with European CE requirements for EMC directive.

WARRANTY

This product is warranted to be free of defects in materials and construction for a period of 12 months from date of lead time.

Liability is limited to repair or replacement of defective item.

Communication Protocol（**MODBUS**）

Transmission mode: MODBUS-RTU,**Baud rate:** 9600bps,**Data bits:**8,**Stop bit:**1,**Check bit:**no

Slave address:the factory default is 01H (set according to the need,00H to FFH)

● **The 03H Function Code Example: Read The Rain or snow**

Host Scan Order(slave address:0x01)

01 03 00 00 00 01 840A

Slave Response

01 03 02 00 0A 3843

(000A)H>> no rain or snow，(000B)H>> rain or snow

● **The 06H Function Code Example: Modify the slave address**

Host Scan Order (Changed the 01H to 02H):

01 06 00 00 00 02 080B

Slave Response:

01 06 00 00 00 02 080B

If you forget the original address, you should use the broadcast address(FEH) (ensure that no devices on the bus at this time).