

DC116W

Wind-sun Sensor Specification

Version NO.: A/01

Wind-sun sensor specification

Technical support

DC90 Radio Tubular Motor
 ~220V/50Hz DC116W Electronic Tubular Motor

DC90 Standard Tubular Motor
 ~220V/50Hz DC116W DC136 or outside receiver (refer to "matchable receiver")

- Stable performance
- Frequency: 433.92MHz
- Range of validity: outdoor 200 meters
- 2 screws fixed
- AC power: 220V/50Hz
- Safety code (50 million times without repeat, high security)
- Can set four different wind scales and four different sunlight ranks
- When the wind power is more than the setting value for 3 seconds, the sensor will automatically close awning. After closed, the sensor will not the wind in three minute.
- When the light level is more than the setting value for 2 minutes, the sensor will automatically unfolds awning.
- When the light level does not reach the setting value for 15 minutes, the sensor will automatically close awning.

Note: Make sure to confirm that sensor has been programmed with the supporting receiver before use.

Matchable receiver

Technical support

DC41 DC42 DC43 DC73A DC101 Radio Tubular Motor

DC136 DC154 DC156 DC158 DC160 Electronic Tubular Motor

Button specification

The best installation distance

Technical support

If wants to change the installation site, it needs open the power junction box, looses the fixed screw. After adjusting the installation site, tighten the screws up.

Power connection: Red screw, Push up to open the power junction box, Direction, Neutral.

Install location (1), (2), (3): DC116W sensor mounted on a wall at different heights and angles.

Wind-sun sensor working principle

Additional function

DC116W DC136 DC43

When breeze, the awning is on the open status.

When gale, the awning begins to close up.

Awning has been completely closed, avoid damage by the gale.

6:00-8:00 AM, 8:00-10:00 AM, 4:00-6:00 PM

When the sunlight is weak in the morning, the awning is on the closed state.

When the sunlight is ample in the noon, the awning will automatically open to protect you from the sun.

When the sunlight disappears in the evening, the awning will close and fold automatically.

Wind-sun sensor grade adjusting reference

Additional function

The DC116W above grades equal to

Wind grade reference	Light grade reference
1 grade 10km/h	0 grade Close
2 grade 20km/h	1 grade 15KLUX
3 grade 30km/h	2 grade 30KLUX
4 grade 40km/h	3 grade 45KLUX
	4 grade 60KLUX

DC116W above grade is equal to

- When the grade is "1", the wind reaches over 10km/h, the awning will fold, LED flashing.
- When the grade is "2", the wind reaches over 20km/h, the awning will fold, LED flashing.
- When the grade is "3", the wind reaches over 30km/h, the awning will fold, LED flashing.
- When the grade is "4", the wind reaches over 40km/h, the awning will fold, LED flashing.

- When the grade is "0", the light will close.
- When the grade is "1", the light reaches over 15KLUX, the awning will open, LED flashing.
- When the grade is "2", the light reaches over 30KLUX, the awning will open, LED flashing.
- When the grade is "3", the light reaches over 45KLUX, the awning will open, LED flashing.
- When the grade is "4", the light reaches over 60KLUX, the awning will open, LED flashing.

Wind-sun sensor testing work mode

Additional function

Before use to ensure that the Wind-sun sensor working mode and the receiver function match, otherwise it will not be able to add emitter or setting up.

Power on

- Is in mode 1 (Launch ordinary instruction code, Adapt to dooya all the common receiver)
 - The green indicator flashing once and extinguish
- Is in mode 2 (Launch special instruction code, With special receiver can open and close the receiver's light function)
 - The green indicator flashing twice and extinguish
- Is in mode 3 (Retention function, not used)
 - The green indicator flashing three times and extinguish
- Is in mode 4 (Launch dooya ordinary instruction code, To adapt to roller shutter mode receiver)
 - The green indicator flashing four times and extinguish

Wind-sun sensor working mode switching

Additional function

Power on

The green indicator flashing three times and extinguish. Enter standby mode.

Press UP button and Pa button at the same time 5 seconds, The green indicator flashing. Enter work mode setting state.

Each time press the Pa button

Enter the state of work mode setting, each time press the Pa button, Would be switching between the four patterns once.

Loop switch to the next mode, light will do the instructions of the corresponding mode.

When the mode switch to the required mode, stop operation, keep the power on until the indicator extinguish, mode set to complete.

Matchable R/E/ED tubular motor to add emitter

Additional function

Tubular motor Power on

~220V/50Hz

Continue to press emitter's setting button (Pa) twice

Time Interval T < 6s

Press the setting button on wind-sun sensor

Set up is OK

~220V/50Hz

- During setting, the time between two operation must be within 6s, or else, it will revert to the original state.
- One receiver store 20 emitters channels at most.
- One channel of emitter can control 20 receiver at most.
- Make sure that the upward button on the emitter will make the awning close before use. Make sure the working mode of the wind-sun sensor is matched with the function of the receiver, otherwise it will not be able to add emitter.

Matchable DC43 to add emitter

Additional function

Both the DC43 and DC116W are in the power state

Press the receiver programming button

See green indicator flashing

Press the stop button of receiver

See the receiver green indicator long flashing

Press the upward button of DC116W

See green indicator flashing and extinguished

Set up is OK

- During setting, the time between two operation must be within 10s, or else, it will revert to the original state.
- One receiver store 20 emitters channels at most.
- One channel of emitter can control 20 receiver at most.
- Make sure that the upward button on the emitter will make the awning close before use. Make sure the working mode of the wind-sun sensor is matched with the function of the receiver, otherwise it will not be able to add emitter.

Matchable DC136 to add emitter

Additional function

Both the DC136 and DC116W are in the power state

Press the receiver programming button

See green indicator flashing

Press the stop button of receiver

See the receiver green indicator long flashing

Press the upward button of DC116W

See green indicator flashing and extinguished

Set up is OK

- During setting, the time between two operation must be within 10s, or else, it will revert to the original state.
- One receiver store 20 emitters channels at most.
- One channel of emitter can control 20 receiver at most.
- Make sure that the upward button on the emitter will make the awning close before use. Make sure the working mode of the wind-sun sensor is matched with the function of the receiver, otherwise it will not be able to add emitter.