DD116H
Bi-directional Wind-sun Sensor Instruction

Version: A/01

Product Features

Technical specification

Working voltage: AC 230V	Radio frequency: 433.92MHz	Working current: <20mA
Working temperature: -10℃~+65℃	Radio range: indoor>30 meters	Safety code (50 million times without repeat, high security)

Warning

1, Stable performance, wireless remote control.
2, The sensor can be fixed to the wall with two screws.
3, There are 7 different wind grades and 4 different light intensity grades.
4, When the wind intensity exceeds the first set grade for the first time, the sensor will send signals automatically to the motor to close the awning within 3~6S; when the wind intensity exceeds the set grade continuously, the sensor will send signals to the motor every per minute one time for 14 times totally.
5, When the light intensity exceeds the set grade continuously more than 5 minutes, the sensor will send signals to close the awning; when the light intensity hasn't reached the set grade continuously more than 5 minutes, the sensor will send signals to open the awning; when the light intensity exceeds the set grade continuously, the sensor will send signals every 5 minutes one time for 19 times totally; when the light intensity hasn't reached the set grade continuously, the sensor will send signals every 15 minutes one time for 10 times totally.

Note: 1,Make sure the wind-sun sensor should be paired to the receiver successfully;
2,Make sure press UP button on the paired emitter, the awning will be closed.
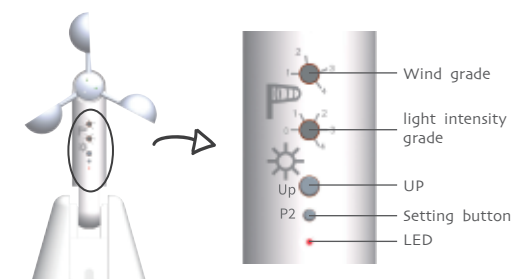
Matchable Motors And Receivers

Uni-directional mode

DC1600

DC1536 or other uni-directional receivers

DD116H

Bi-directional mode

DD1600H

DM45EAC/S or other bi-directional receivers.

DD116H

Instruction Of Buttons

Wind grade

light intensity grade

Up — UP

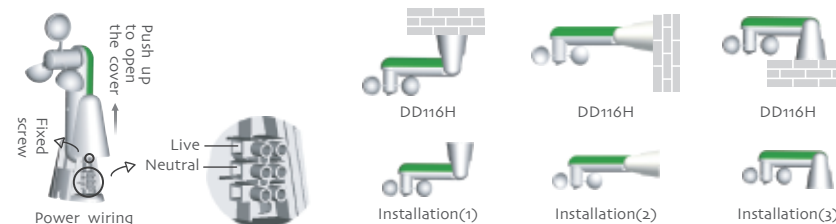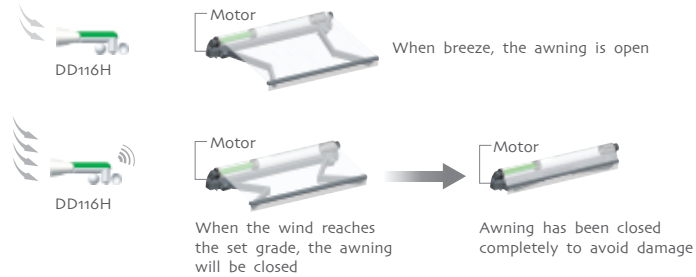P2 — Setting button

LED

Correct Installation Methods

Note: If to change the installation position, open the power terminal box, loosen the screw and adjust to the desired position then tighten the fixed screw.
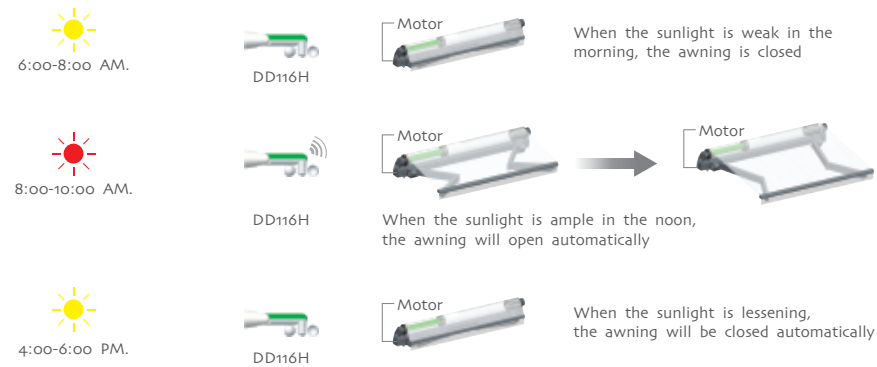

Push up to open the cover

Fixed screw

Live
Neutral

Power wiring

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Installation(1)

Installation(2)

Installation(3)

Sensor Working Principle

Wind sensor

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Motor

When breeze, the awning is open

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Motor

Motor

When the wind reaches the set grade, the awning will be closed

Awning has been closed completely to avoid damage

Light sensor

6:00-8:00 AM.

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Motor

When the sunlight is weak in the morning, the awning is closed

8:00-10:00 AM.

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Motor

Motor

When the sunlight is ample in the noon, the awning will open automatically

4:00-6:00 PM.

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Motor

When the sunlight is lessening, the awning will be closed automatically

Sensor Grade Adjusting Reference

Note: 1,When the wind intensity exceeds the set grade, the motor runs upward after 3 seconds. 2,When the sun intensity continues to exceed the set grade, the motor runs downward after 5 minutes. When the light intensity continuously doesn't reach the set grade, the motor runs upward after 15 minutes.

Wind grade reference	
1 grade	10km/h
1.5 grade	15km/h
2 grade	20km/h
2.5 grade	25km/h
3 grade	30km/h
3.5 grade	35km/h
4 grade	40km/h

①When the grade is "1", the wind intensity reaches over 10km/h, the awning will be closed.
②When the grade is "1.5", the wind intensity reaches over 15km/h, the awning will be closed.
③When the grade is "2", the wind intensity reaches over 20km/h, the awning will be closed.
④When the grade is "2.5", the wind intensity reaches over 25km/h, the awning will be closed.
⑤When the grade is "3", the wind intensity reaches over 30km/h, the awning will be closed.
⑥When the grade is "3.5", the wind intensity reaches over 35km/h, the awning will be closed.
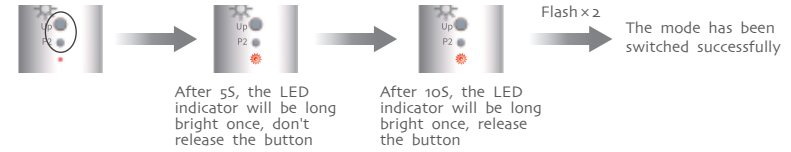⑦When the grade is "4", the wind intensity reaches over 40km/h, the awning will be closed.

Light intensity grade reference	
0 grade	Close
1 grade	20KLUX
2 grade	40KLUX
3 grade	60KLUX
4 grade	80KLUX

①When the grade is "0", the sun intensity will close.
②When the grade is "1", the sun intensity reaches over 20KLUX, the awning will open.
③When the grade is "2", the sun intensity reaches over 40KLUX, the awning will open.
④When the grade is "3", the sun intensity reaches over 60KLUX, the awning will open.
⑤When the grade is "4", the sun intensity reaches over 80KLUX, the awning will open.
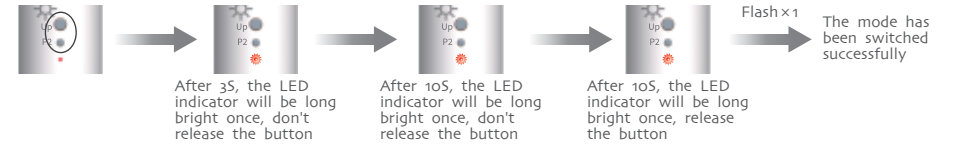
Uni-directional / Bi-directional Mode Switch

Uni-directional mode switch to bi-directional mode
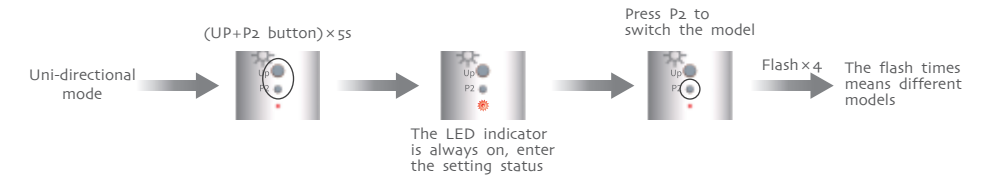
Press and hold UP and P2 button, don't release

After 5S, the LED indicator will be long bright once, don't release the button

After 10S, the LED indicator will be long bright once, release the button

Flash×2

The mode has been switched successfully

Bi-directional mode switch to uni-directional mode

Press and hold UP and P2 button, don't release

After 3S, the LED indicator will be long bright once, don't release the button

After 10S, the LED indicator will be long bright once, don't release the button

After 10S, the LED indicator will be long bright once, release the button
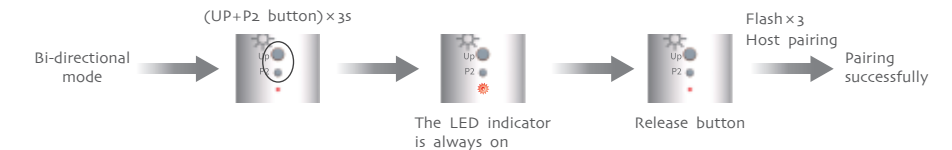
Flash×1

The mode has been switched successfully

Switching DC116/DC116E/DC116F/DC116G Operation(Under Uni-directional Mode)

Note: The flashes times means different models; flash once is DC116, twice is DC116E, three times is DC116F and four times is DC116G.

Uni-directional mode

(UP+P2 button)×5s

The LED indicator is always on, enter the setting status

Press P2 to switch the model

Flash×4

The flash times means different models

Host Mode (Under Bi-directional Mode)

Note: In the host mode, the sensor doesn't talk to the motor but only send commands to the host.

Bi-directional mode

(UP+P2 button)×3s

The LED indicator is always on

Release button

Flash×3
Host pairing

Pairing successfully

Switch To Normal Mode (Under Bi-directional Mode)

Note: In the normal mode, the sensor talks to the motor directly.

Host mode

(UP+P2 button)×6s

The LED indicator is always on

Release button

Flash×4

The mode has been switched successfully