



# INSTALLATION MANUAL

Bi-directional Wind-sun Sensor Instruction

**DD116**

Read the manual before you begin the installation. If these instructions are not followed, this may lead to defects and injury in which warranty can't be claimed.



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DD 116

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### Warning



Do not operate the motor in humid surroundings.



BREL-Motors declares that this motor has been manufactured according to the guidelines of the CE standard 1999/5/EC



The motor must be protected from direct moisture influences.



Keep the antenna in a good condition and do not shorten. The antenna should not come into contact with other metal parts otherwise it will reduce the function.



The motor must be installed correctly.

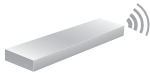


Do not allow children to play with the roller blind control unit. Keep remote controls out of reach of children. Children cannot recognize the dangers of electrical equipment and are therefore not allowed to work with it

Keep these instructions for future reference

## Matchable Motors and Receivers

### Uni-directional mode



DC1600



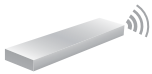
DD116H

Image Required



DC1536 or other uni-directional receivers.

### Bi-directional mode

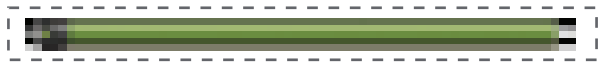


DD1600H



DD116H

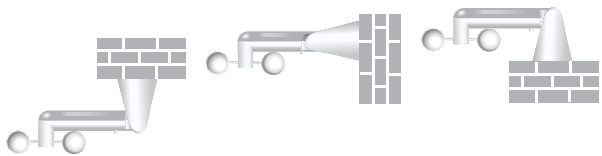
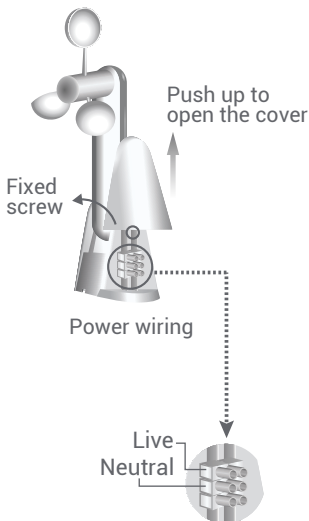
Image Required



DM45EAC/S or other bi-directional receivers.

## Installing the Motor

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.



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Installation (1)



Installation (2)



Installation (3)

## Technical data of the motor

DD116

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

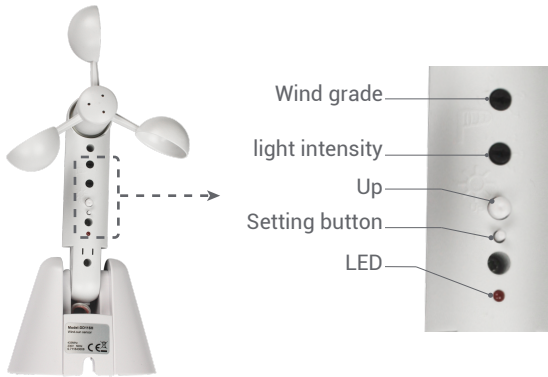
### WARNING:

- 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 3 minutes one time.
- 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.

## Functions Remote Control

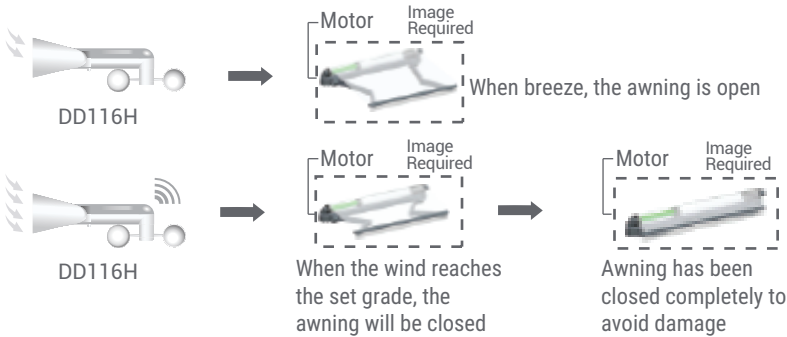


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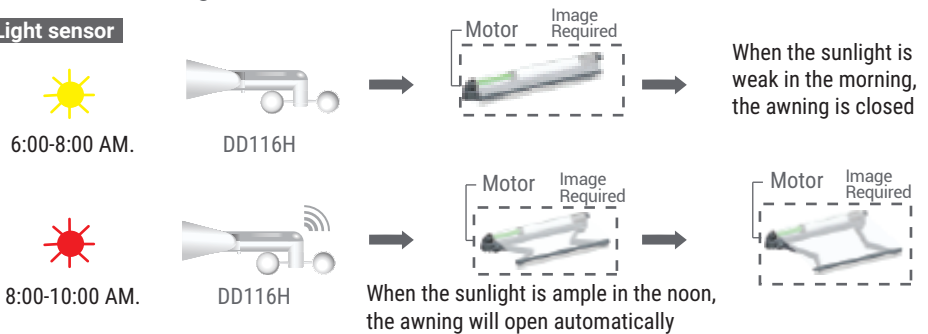
### Step 1 Sensor Working Principle

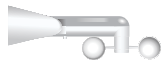
#### Wind sensor



### Step 2 Establishing connection

#### Light sensor





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

4:00-6:00 PM.

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### Step 4 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

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

- When the grade is "0", the sun intensity will close.
- When the grade is "1", the sun intensity reaches over 20KLUX, the awning will open.
- When the grade is "2", the sun intensity reaches over 40KLUX, the awning will open.
- When the grade is "3", the sun intensity reaches over 60KLUX, the awning will open.
- When 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



Flash×2



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.

The mode has been switched successfully.

## Bi-directional mode switch to uni-directional mode

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



Flashx2



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

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)x5s



Flashx4



The LED indicator is always on, enter the setting status

The flash times means different models



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