

# AUTOMATE

## Interior Sun Sensor



433 MHz

Internal sun sensor for automatic shade control.

### FEATURES:

- 3 Modes of operation:
  - Close Mode
  - Open / Close Mode
  - Shade Detect Mode
- 4 Light sensitivity levels
- Low battery warning

# CONTENTS

<b>1</b>	<b>TECHNICAL DATA / PACK CONTENTS</b>	<b>3</b>
<b>2</b>	<b>SAFETY</b>	<b>4</b>
<b>3</b>	<b>INSTALLATION</b>	<b>5</b>
3.1	Sensor battery	5
3.2	Replacing battery	5
3.3	Mounting	5
<b>4</b>	<b>FUNCTIONAL OVERVIEW</b>	<b>6</b>
4.1	Buttons	6
4.2	Modes	6
4.3	View and change sensor mode	7
4.4	Light levels of light intensity values	7
4.5	Light intensity detection	7
4.6	Low battery notification	7
4.7	<b>UP</b> button	7
<b>5</b>	<b>PROGRAMMING</b>	<b>8</b>
5.1	Protocol selection	8
<b>6</b>	<b>ADDING OR REMOVING SENSOR &amp; CREATING GROUP CONTROL</b>	<b>9</b>
6.1	Using Motor P1 Button	9
6.2	Using a pre-existing Controller	9
<b>7</b>	<b>TROUBLESHOOTING</b>	<b>10</b>
<b>8</b>	<b>NOTES</b>	<b>11</b>

# 1 TECHNICAL DATA / PACK CONTENTS

## TECHNICAL SPECIFICATIONS

Voltage:	3V (CR2032)
Standby Current:	5uA
Frequency:	433.92 MHz
Transmitting Power:	10 milliwatt
Ambient Operating Temperature:	-10°C -50°C
Light Intensity Level Range:	15 - 75 Klux
Transmission Distance:	up to 200 meters (open space)

## PACK CONTENTS

1 x Sun Sensor

1 x Instruction Manual

1 x 3V - CR2032 Battery

## 2 SAFETY

### **WARNING: Important safety instructions to be read before installation and use.**

Incorrect installation or use can lead to serious injury and will void manufacturer's liability and warranty.

It is important for the safety of persons to follow the enclosed instructions. Save these instructions for future reference.

- Do not expose to water, moisture, humid and damp environments or extreme temperatures.
- Persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge should not be allowed to use this product.
- Use or modification outside the scope of this instruction manual will void warranty.
- Installation and programming to be performed by a suitably qualified installer.
- Follow installation instructions.
- For use with motorized shading devices.
- Keep away from children.
- Frequently inspect for improper operation. Do not use if repair or adjustment is necessary.
- Keep clear when in operation.
- Replace battery with correctly specified type.

Rollease Acmeda declares this equipment is in compliance with the essential requirements and other relevant provisions of R&TT EC Directive 1999/5/EC

### **Statement Regarding FCC Compliance**

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.

Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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



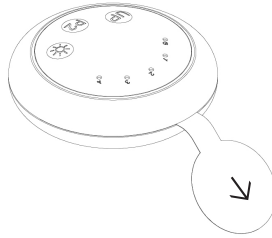
Do not dispose of in general waste.  
Please recycle batteries and damaged electrical products appropriately.



## 3 INSTALLATION

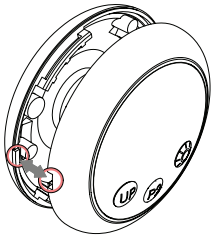
### 3.1 Sensor battery

Pull battery tab out to activate for first use.

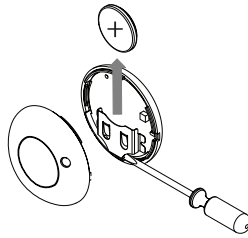


### 3.2 Replacing battery

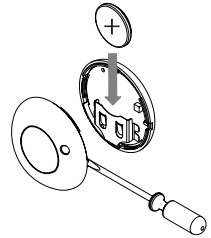
Pry open using flat head screw driver where notches meet on the sensor.



Remove old battery by pressing up from under the battery's position.



Push new battery in with the "+" facing outwards.



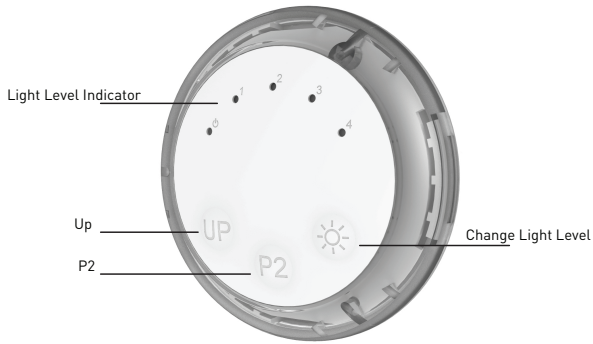
Replace cover by aligning notches and press together.

### 3.3 Mounting

1. Ensure surface on glass is clean and free of dust.
2. On the back of the sensor, peel clear plastic off to reveal adhesive.
3. Find desired position on glass for the sensor and press adhesive side to glass.

## 4 FUNCTIONAL OVERVIEW

### 4.1 Buttons



### 4.2 Modes

#### Mode 1 - DEFAULT

##### Close Mode

Pre-set light level reached

Light level stays above pre-set for 2 mins

Blind goes down

Blind stays down

#### Mode 2

##### Open / Close Mode

Pre-set light level reached

Light level stays above pre-set for 2 mins

Blind goes down

Light < pre-set for >15 mins

Blind goes back up

#### Mode 3

##### Shade Detect Mode

Pre-set light level reached

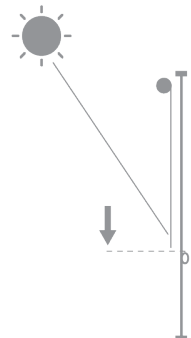
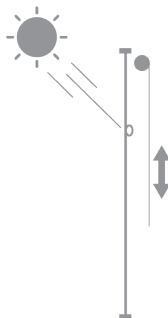
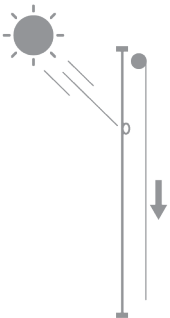
Light level stays above pre-set for 2 mins

Blind goes down until sensor is covered

Blind goes up until sensor is uncovered

Light < pre-set for > 15 mins

Blind goes back up



### 4.3 View and change sensor mode

To view the current mode, press the **SUN** button for one second

1 blink indicates mode 1

2 blinks indicate mode 2

3 blinks indicate mode 3

#### To change the mode:

Hold the **SUN** button until the LED blinks 5 times. The mode has now shifted up by one. E.g. Mode 2 has changed to Mode 3.

### 4.4 Light levels of light intensity values

0 Level	Not Operational
1 Level	15kLUX
2 Level	30kLUX
3 Level	45kLUX
4 Level	60kLUX

 **To Change light level setting:** Press the SUN key repeatedly until the desired light level flashes.

### 4.5 Light intensity detection

Press the **SUN** and **P2** buttons for once second



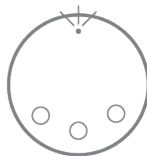
Hold the sensor toward the light

Response

.....  
The unit will indicate light level

### 4.6 Low battery notification

When the battery needs changing, the currently selected light level LED will blink every 2 minutes



### 4.7 UP button

The up button can be used to manually override the sensor and tell the shade to go up.

## 5 PROGRAMMING



### IMPORTANT

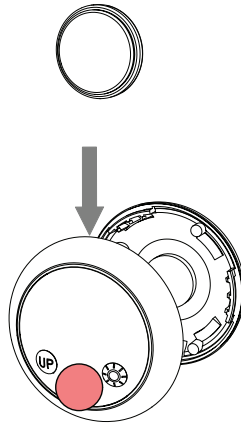
Please refer to the relevant documentation of your motor model for instructions on adjusting motor settings.

### 5.1 Protocol selection

This device can be configured to operate Acmeda line “EL” motors. (The default mode is ARC protocol).

To toggle between ARC & EL modes follow the following steps.

HOLD **P2** whilst inserting battery



To check which mode the sensor is currently in, press the **UP** or **P2** button briefly.

**Acmeda “EL” Protocol:** The current LED will blink slowly 4 times to indicate that the old protocol is currently set.

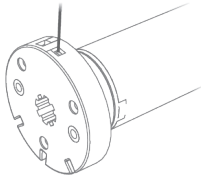
**ARC Protocol:** The current LED will blink fast 8 times to indicate that the new (ARC) protocol is currently set.



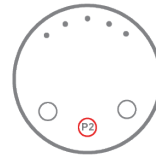
# 6 ADDING OR REMOVING SENSOR & CREATING GROUP CONTROL

## 6.1 Using Motor P1 Button

Hold **P1** button on motor head.



Hold **P2** on sensor to add or remove.



Motor Response



Motor Response



## 6.2 Using a pre-existing Controller

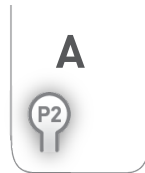
**A**= Existing controller or channel (to keep)

**B**= Controller or channel to add or remove

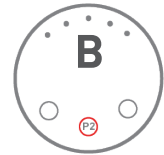
Press **P2** on existing controller.



Press **P2** on existing controller.



Press **P2** on new sensor.



Motor Response



Motor Response



Motor Response



### IMPORTANT

Consult user manual for your controller or sensor.

## 7 TROUBLESHOOTING

Problem	Cause	Remedy
Motor is not responding	Sensor battery is discharged	Replace battery (Ref. Section 3.2)
	Battery is inserted incorrectly	Check battery polarity (Ref. Section 3.2)
	Radio interference / Shielding	Ensure remote is positioned away from metal objects and that aerial on motor or receiver is kept straight and away from metal.
	Sensor distance is too far from motor	Move sensor to a closer position
	Power failure	Check power supply to motor is connected and active
	Incorrect wiring	Check wiring is connected correctly (refer to motor installation instructions)



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