

R TEC AUTOMATION Interior Sun Sensor User Guide

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R-TEC Smart Controls - Interior Sun Sensor RTMISS



Interior sun sensors automatically manage daylight transitions at each window, minimizing reliance on and costs of artificial light.

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FEATURES



2-Way RF Communication



3 Modes of Operation: Close, Open / Close & Shade Detect



4 Light Sensitivity Levels



Low Battery Warning



COMPLIANCE STATEMENT

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

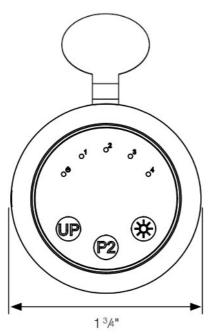
TECHNICAL DATA / PACK CONTENTS

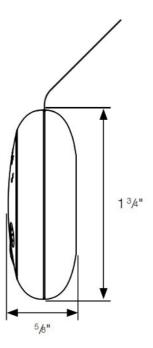
PRODUCT SPECIFICATIONS

Parameters	Value
Voltage	3 V DC
Battery	CR2032
Radio Frequency	433.92 MHz
Transmitting Power	10 milliwatt
Transmission Range	65′
Standby Current	5 uA
Light Intensity Level Range	15 – 75 Klux
Temperature Working Range	14º F – 122º F (-10º C – 50º C)

PACK CONTENTS

- 1. Sun Sensor
- 2. Instruction Manual
- 3. 3V CR2032 Battery





SAFETY



WARNING

Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Incorrect installation can lead to serious injury and will void manufacturer's liability and warranty.

CAUTION

- Do not expose to moisture or extreme temperatures.
- Do not allow children to play with this device.

- Use or modification outside the scope of this instruction manual will void warranty.
- Installation and programming to be performed by a suitably qualified installer.
- Use only R-TEC Automation® hardware.
- · Keep clear when in operation.
- Replace battery with correctly specified type.

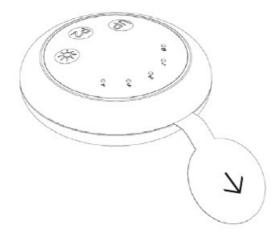
IMPORTANT SAFETY INSTRUCTIONS TO BE READ PRIOR TO OPERATION

- It is important for the safety of persons to follow the enclosed instructions. Save these instructions for future reference.
- Persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge should not be allowed to use this product.
- Frequently inspect for improper operation. Do not use if repair or adjustment is necessary.
- · Keep away from children.

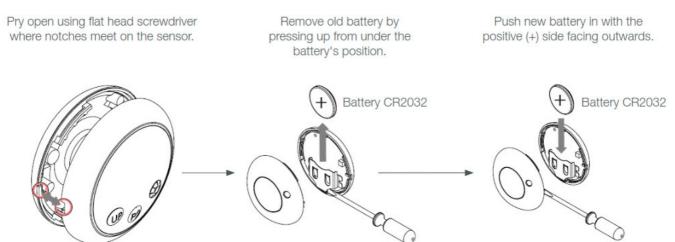
INSTALLATION

SENSOR BATTERY

Pull battery tab out to activate for first use.



REPLACING BATTERY



Replace cover by aligning notches and press together.

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. Check that the glazing or the tint on the window will not affect the functionality of the Sun Sensor.
- 5. Ensure that the light level is enough to activate the Sun Sensor. If it is possible to measure the light intensity using the Lux-meter. The values measured should be according to the level of the sensor mode selected.

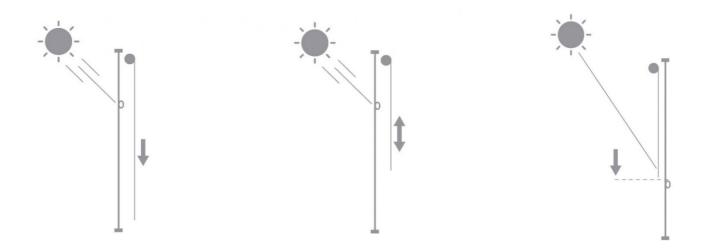
FUNCTIONAL OVERVIEW

BUTTONS



MODES

Mode 1 – DEFAULT Close Mode	Mode 2 Open / Close Mode	Mode 3 Shade Detect Mode
		Preset light level reached
	Preset light level reached	Light level stays above preset for 2 minutes
Preset light level reached Light level stays above preset for 2	Light level stays above preset for 2 minutes	Blind goes down until sensor is covered
minutes	Blind goes down	Blind goes up until sensor
Blind goes down	Light level goes below the preset v	is uncovered
Blind stays down	alue for more than 15 minutes Blind goes back up	Light level goes below the preset value for more than 15 minut es
		Blind goes back up

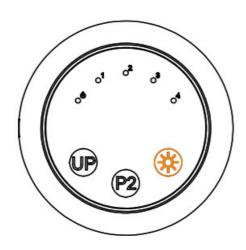


VIEW AND CHANGE SENSOR MODE

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.

LIGHT LEVELS OF LIGHT INTENSITY VALUES

Light Level	Luminous flux per unit area
0 Level	Not Operational
1 Level	15,000 LUX
2 Level	30,000 LUX
3 Level	45,000 LUX
4 Level	60,000 LUX

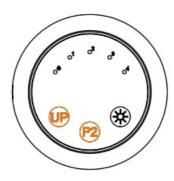


TO CHANGE LIGHT LEVEL SETTING:

Press the SUN key repeatedly until the desired light level flashes.

LIGHT INTENSITY DETECTION

Press the SUN and P2 buttons for one second. → Hold the sensor toward the light.

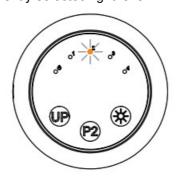


Response

The unit will indicate light level

LOW BATTERY NOTIFICATION

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



UP BUTTON

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

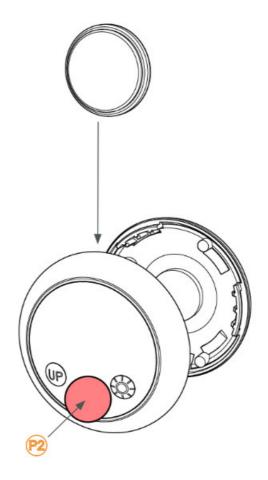


PROGRAMMING

PROTOCOL SELECTION

R-TEC Automation® motors use the default ARC protocol mode. If your device is in the "EL" mode, to toggle back to the ARC mode follow the steps below.

Hold P2 while inserting battery



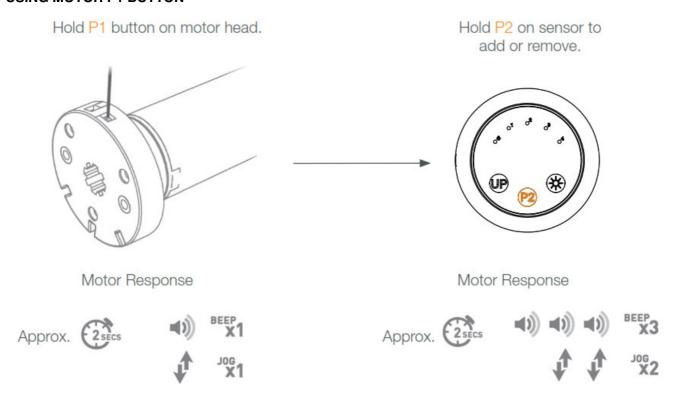
To check which mode the sensor is currently in, press the UP or P2 button briefly.

ARC Protocol: The current LED will blink fast 8 times to indicate that the new (ARC) protocol is currently set. *This is the mode needed for your R-TEC Automation® motor to work.

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

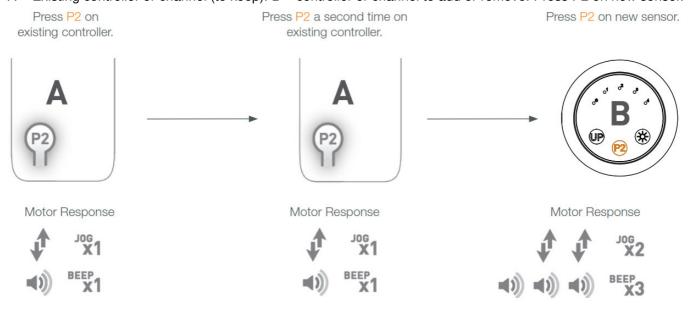
ADDING OR REMOVING SENSOR & CREATING GROUP CONTROL

USING MOTOR P1 BUTTON



USING PRE-EXISTING CONTROLLER

A = Existing controller or channel (to keep). B = controller or channel to add or remove. Press P2 on new sensor.





Consult your user manual for your controller or sensor.

TROUBLESHOOTING

Problem	Cause	Remedy
Motor is not responding	Sensor battery is discharged	Replace battery. See page 5.
	Battery is inserted incorrectly	Check battery polarity. See page 5.
	Radio interference / Shielding	Ensure sensor is positioned away fro m metal objects and that aerial on mo tor or receiver is kept straight and aw ay from metal.
	Sensor distance is too far from remote	Move sensor to a closer position.
	Power failure	Check power supply to motor is conn ected and active.
	Incorrect wiring	Check wiring is connected correctly (r efer to motor installation instructions).

Any Questions?

Contact our R-TEC Automation® in-house experts at 866.985.3423. Email us at RTECAutomation@RowleyCompany.com.

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Do no dispose of in general waste.

Please recycle batteries and damaged electrical products appropriately.



Documents / Resources



R TEC AUTOMATION Interior Sun Sensor [pdf] User Guide Interior Sun Sensor, RTMISS, R-TEC Smart Controls

Manuals+,